

MAR 2 - 1986

NOAA TECHNICAL MEMORANDUM NWS NSSFC-16



SEVERE THUNDERSTORM CASES OF JULY 1985 THRU JUNE 1986

John E. Hales, Jr. and Hugh G. Crowther
National Severe Storms Forecast Center
Kansas City, Missouri 64106

February 1987

**U.S. DEPARTMENT OF
COMMERCE**

/ National Oceanic and
Atmospheric Administration

/ National Weather
Service

NOAA TECHNICAL MEMORANDA

National Weather Service
National Severe Storms Forecast Center

The National Severe Storms Forecast Center (NSSFC) has the responsibility for the issuance of severe thunderstorm and tornado watches for the contiguous 48 states. Watches are issued for those areas where thunderstorms are forecast to produce one or more of the following: (1) hailstones of 3/4 inch diameter or greater, (2) surface wind gusts of 50 knots or greater, or (3) tornadoes.

NOAA Technical Memoranda in the NWS, NSSFC subseries are produced under the technical guidance of the NSSFC, Techniques Development Unit. They facilitate rapid dissemination of material of general interest in the field of severe storm meteorology. These papers may be preliminary in nature, and may be formally published elsewhere at a later date.

These papers are available from the National Technical Information Service (NTIS), U.S. Department of Commerce, Sillis Building, 5285 Port Royal Road, Springfield, Virginia 22161. Price varies, \$3.50 for microfiche.

Previous Issues in this series:

- No. 1 New Severe Thunderstorm Radar Identification Techniques and Warning Criteria: A Preliminary Report. Leslie R. Lemon, July 1977, 60 p. (PB 273049).
- No. 2 A Subjective Assessment of Model Initial Conditions Using Satellite Imagery. John E. Hales, Jr., November 1978, 19 p. (PB 291593).
- No. 3 Severe Thunderstorm Radar Identification Techniques and Warning Criteria. Leslie R. Lemon, April 1980, 60 p. (PB 231409).
- No. 4 The Enhanced-V, A Satellite Observable Severe Storm Signature. Donald W. McCann, March 1981, 31 p. (PB 230336).
- No. 5 The Operational Meteorology of Convective Weather Volume I: Operational Mesoanalysis. Charles A. Doswell III, November 1982, 160 p. (PB 83162321).
- No. 6 Severe Local Storm Warning and Event Summaries Available in AFOS. Preston W. Leftwich, Jr. and Lawrence C. Lee, January 1984, 10 p. (PB 84 150291).
- No. 7 Severe Thunderstorm Cases of 1984. John E. Hales, Jr. and Hugh G. Crowther, May 1985, 88 p. (PB85 210748/AS).

SEVERE THUNDERSTORM CASES OF JULY 1985 THRU JUNE 1986

JOHN E. HALES, JR.
HUGH G. CROWTHER
National Severe Storms Forecast Center
Kansas City, Missouri 64106

February 1987

UNITED STATES
DEPARTMENT OF COMMERCE
Malcolm Baldrige, Secretary

National Oceanic and
Atmospheric Administration
Anthony Calio, Administrator

National Weather
Service
Richard E. Hallgren,
Assistant Administrator



TABLE OF CONTENTS

	<u>Page No.</u>
Abstract	1
1. Introduction	1
2. Case Format	2
3. Summary	3
4. References	3
<u>Cases</u>	
No. 1 July 4 1985	6
No. 2 July 9	7
No. 3 July 10	8
No. 4 July 14-15	9
No. 5 July 19	10
No. 6 July 25	11
No. 7 July 29	12
No. 8 July 30	13
No. 9 July 31	14
No. 10 August 1	15
No. 11 August 2	16
No. 12 August 6	17
No. 13 August 7	18
No. 14 August 12	19
No. 15 August 16	20

No. 16	August 17	21
No. 17	August 19	22
No. 18	August 21	23
No. 19	August 26	24
No. 20	August 30	25
No. 21	August 31	26
No. 22	September 8	27
No. 23	September 22	28
No. 24	October 28-November 2	29
No. 25	November 13	30
No. 26	November 18	31
No. 27	November 19	32
No. 28	February 5 1986	33
No. 29	February 10	34
No. 30	February 17	35
No. 31	March 10	36
No. 32	March 11	37
No. 33	March 12	38
No. 34	March 13	40
No. 35	March 14	42
No. 36	March 18	43
No. 37	March 31	45

No. 38	April 4	46
No. 39	April 7	47
No. 40	April 11	48
No. 41	April 13	50
No. 42	April 19	52
No. 43	April 26	53
No. 44	May 6	54
No. 45	May 7	55
No. 46	May 8	56
No. 47	May 10	57
No. 48	May 12	58
No. 49	May 13	59
No. 50	May 15	61
No. 51	May 16	62
No. 52	May 17	63
No. 53	May 18	64
No. 54	May 24	65
No. 55	June 1	67
No. 56	June 10	68
No. 57	June 16	69
No. 58	June 21	70
No. 59	June 26	71

SEVERE THUNDERSTORM CASES OF JULY 1985 THRU JUNE 1986

JOHN E. HALES JR.
HUGH CROWTHER

ABSTRACT

Severe thunderstorm occurrences are relatively infrequent in much of the United States. As a result a forecaster only occasionally has an opportunity to forecast their development. This proves to be a problem as certainly one of the more important factors in forecasting them is the level of experience an individual forecaster has. Realizing the importance that experience plays and difficulty involved for a meteorologist to study past cases, a summary was compiled of all the organized severe thunderstorm episodes for the period from July 1985 thru June 1986. Included in each case were the times and locations of the severe weather along with specifics of the more noteworthy events. A composite of those parameters most frequently found to be associated with severe thunderstorms was included. Each case has a surface and 500mb analysis along with an infrared satellite photo. The objective was to give an overview to a forecaster as to what ingredients went into severe development with a more detailed analysis being left up to the individual.

INTRODUCTION

More severe thunderstorms occur in the United States than in any other area in the world. Organized severe thunderstorm episodes can occur in any section of the country and in any month of the year. The synoptic conditions that result in the development of these storms vary widely across the country. Severe storm climatology shows the episode frequency decreasing with distance from the center of the country, however only the Pacific coastal states lack a significant number of cases for any great concern.

One of the more important tools in forecasting severe thunderstorm episodes is experience. The more opportunities a forecaster has in working a severe weather situation, the greater his skill and confidence becomes. Unfortunately these episodes are infrequent enough that, with the exception of the most active areas in the central United States, an individual forecaster may only work a severe situation once or twice per year.

The usual technique for increasing ones experience base is to go back and examine the synoptic charts, particularly for cases

with which the forecaster was not previously involved. This can be a rather difficult undertaking because charts of interest may not be readily available and/or organized in a systematic manner. This is the case at the NSSFC, but it is often so to a much greater extent at the local field offices.

The purpose of this publication is to identify and organize those severe thunderstorm episodes that occurred across the nation for the period from July 1985 thru June 1986 into a handy and easy to use format such that a forecaster can readily review those cases that may be of interest to him. The selection procedure of the cases was not very restrictive and included most of the organized severe thunderstorm episodes that occurred nationally. In those areas where storms are rather infrequent, such as west of the Rocky Mountains, the selection threshold was somewhat lower.

CASE FORMAT

The basic approach in compiling the cases was to provide the interested forecaster with a comprehensive, but not excessive, number of charts. The following is a description of each chart included.

Daily Activity Summary-A fairly tight depiction of the day's organized severe convection is shown(solid line). A listing of any noteworthy individual event is included for each day. The criteria for listing a report would be most of the F2(Fujita 1981) or greater tornadoes, tornadoes/wind damage that result in death, a significant number of injuries and/ or damage that generally exceeds \$100,000. Storms that resulted in damage in excess of about \$100,000 were included in the listing by category as used in Storm Data(U.S.Dept of Commerce 1985 and 1986). Those reports were then located on the activity summary chart by number. with an * not in a watch). Also included is a table listing the daily total of severe reports. Following the date there is included the time range of the organized severe occurrence. All times for this chart were in CST.

Composite Chart-The purpose of a composite is to represent on one chart those parameters important in producing severe thunderstorm. The basic composite is similar to that done in TR-200(e.g., Miller, 1972) with some modifications. Instead of using the 850 Td, the mean mixing ratio(solid line g/kg) was incorporated as a better representation of the low level moisture supply. The relevant short wave trough(line of triangles)was taken from the 700mb level rather than 500mb. This was done for

two reasons a) the 500mb analysis being included in the study and b) a more frequent correlation of troughs at 700mb with severe thunderstorm development. The polar and subtropical jet-stream is depicted by the maximum wind axis (wide solid line with arrowhead in kts) at the 250mb level. The lifted index analysis (dashed line) used the lower 100mb of moisture and a forecasted maximum surface temperature. Any areas of upper diffluence (zig zag line) and mid level drying (heavy dashed line), as well as the low level jet (line with arrowhead in kts), as shown on the 850 mb analysis, are included.

500mb Analysis- The NMC operational 500mb analyses using the observation time most relevant to the severe thunderstorm development was included.

Surface Analysis- The NMC operational analyses nearest either the time of initial severe thunderstorm development or the time of the most severe storm occurrence was included.

Satellite Photo- The infrared photo closest to the time of the most severe storm occurrence of the day was included.

SUMMARY

The details of synoptic patterns that are associated with severe weather events are soon forgotten. However similar a severe weather situation seems to an earlier occurrence there are always important differences. Having available the pertinent synoptic conditions that were present in a past situation should enable a forecaster to better identify future storm producing patterns.

REFERENCES

Department of Commerce, 1985: Storm Data. Environmental Data Services, NOAA, National Climatic Center, Asheville, NC.

Department of Commerce, 1986: Storm Data . Environmental Data Services, NOAA, National Climatic Center, Asheville, NC.

Fujita, T.T. and A.D. Pearson, 1973: Results of FPP classification of 1971 and 1972 tornadoes. Proc. 8th Conf. Severe

Local Storms, Amer. Meteor. Soc., Boston, 142-145.

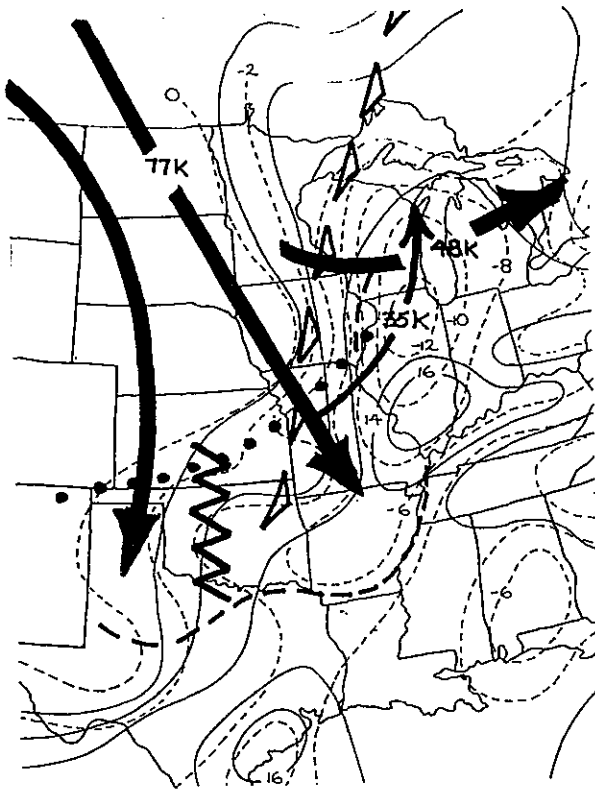
Hales, J.E. and Crowther, H.G., 1985: Severe Thunderstorm cases of 1984, NOAA Tech Memo NWS NSSFC-7., Kansas City, 88pp.

Hales, J.E. and Crowther, H.G., 1986: Severe Thunderstorm cases of 1985, NOAA Tech Memo NWS NSSFC-11., Kansas City, 51pp.

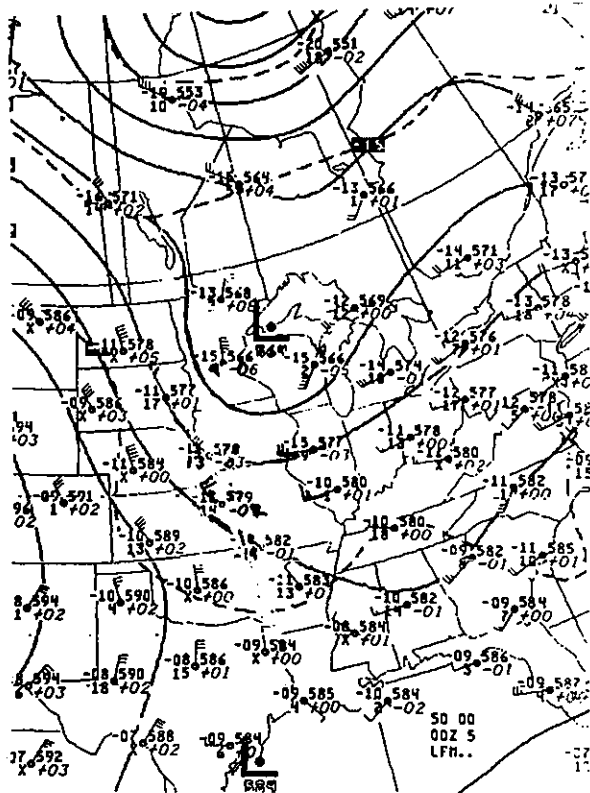
Miller, R.C., 1972: Notes on analysis and severe storm forecasting procedures of the Air Force Global Weather Central. Air Weather Service Tech. Report 200(Rev.), Headquarters AWS, Scott AFB, Il, 94 pp.

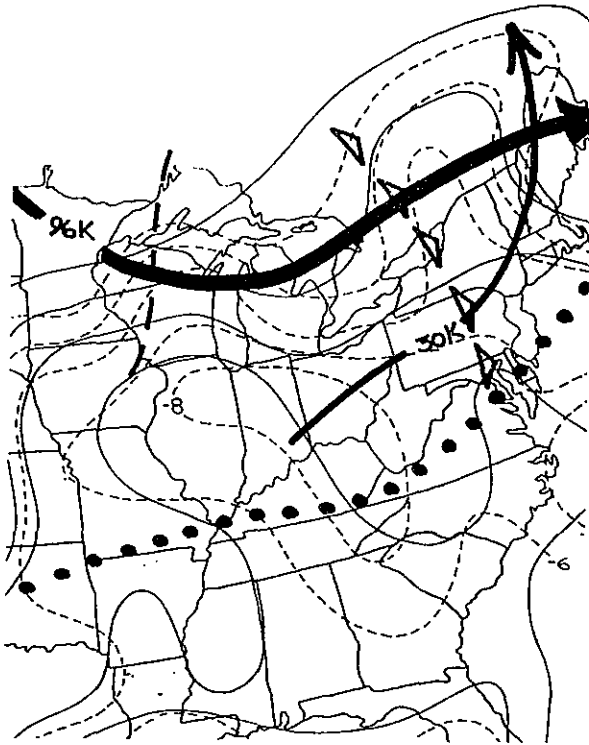
1. July 4, KS OK MO IL IN MI WI
2. July 9, WI IL MI IN OH PA WV
3. July 10, NC VA WV KY TN AL GA MD DE
4. July 14, KS NE IA MO IL IN MI OH PA WV
5. July 19, CO KS
6. July 25, VA MD DE
7. July 29, AZ
8. July 30, ID CO
9. July 31, PA MD DE NJ
10. August 1, WY CO
11. August 2, MT WY SD SD NE
12. August 6, KS OK NE IA MO MN WI IL
13. August 7, TX AR LA
14. August 12, WI IA
15. August 16, AL GA TN SC NC
16. August 17, KS
17. August 19, CO WY NE SD
18. August 21, ND SD
19. August 26, UT WY
20. August 30, PA MD DE NY CT RI MA
21. August 31, FL
22. September 8, MN IA WI IL MI IN
23. September 22, OK KS MO IA
24. October 28, LA MS AL FL GA
25. November 13, OK
26. November 18, OK MO AR IL
27. November 19, IL IN
28. February 5, TX
29. February 10, GA
30. February 17, AR MS AL TN
31. March 10, IL IN OH KY PA
32. March 11, TX LA AR MS TN KY OK

33. March 12, MS AL KY TN
34. March 13, GA FL SC
35. March 14, FL
36. March 18, LA MS AL GA
37. March 31, KS OK
38. April 4, TX AR
39. April 7, KS OK MO AR
40. April 11, TX LA MS
41. April 13, OK KS NE TX AR
42. April 19, TX LA
43. April 26, NE KS IA SD MN
44. May 6, KS NE IA MO IL IN MI OH PA
45. May 7, SD NE KS OK IL IN OH KY
46. May 8, OK TX
47. May 10, SD NE KS OK
48. May 12, KS NE IA MO MN
49. May 14, KS OK AR MO IL KY IN
50. May 15, IL IN OH MI
51. May 16, KS OK TX IL
52. May 17, TX LA
53. May 18, LA MS AL
54. May 24, TX OK LA
55. June 1, NY NH VT MA ME
56. June 10, TX OK KS MO NE
57. June 16, OH NY PA VT NH
58. June 21, NE SD IA MN
59. June 26, ND SD



Composite 6PM CST July 4, 1985



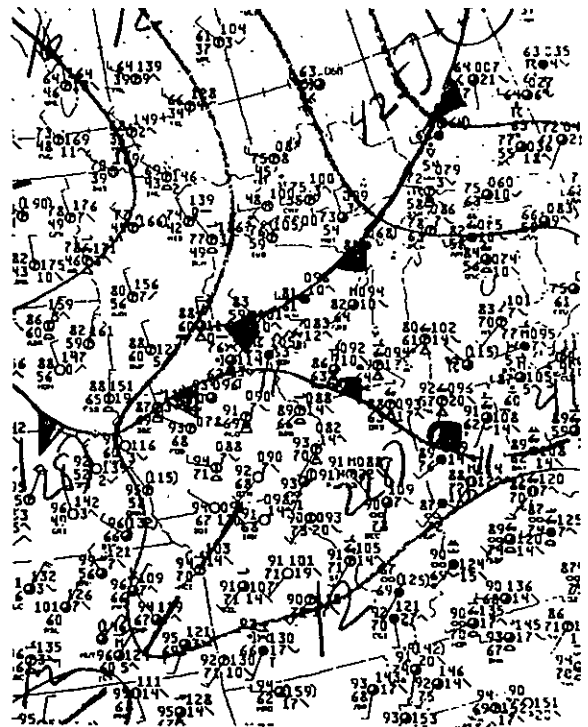


Composite 6PM CST July 9, 1985

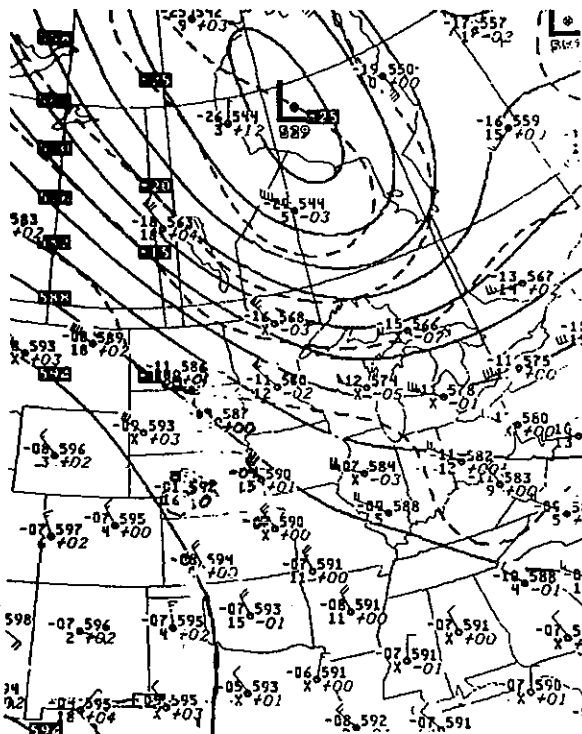
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DNR
1	1455	GUST 125 MPH	WI	VIDUA			5	
2	1830	TORNADO-F2	IL	DANA			6	5



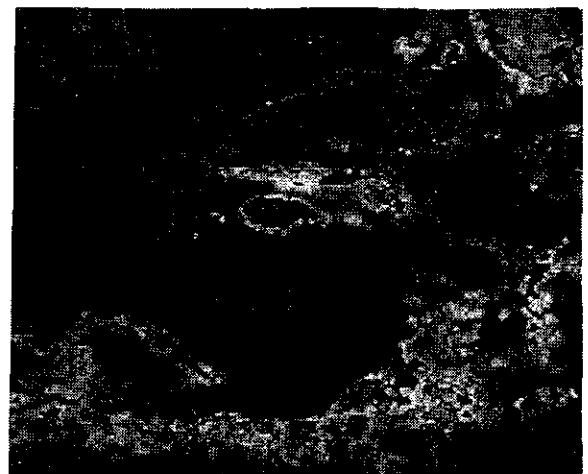
09JUL85-10JUL85 1425-0520 CST 62 REPORTS 1 TORNADO



Surface 3PM CST July 9, 1985

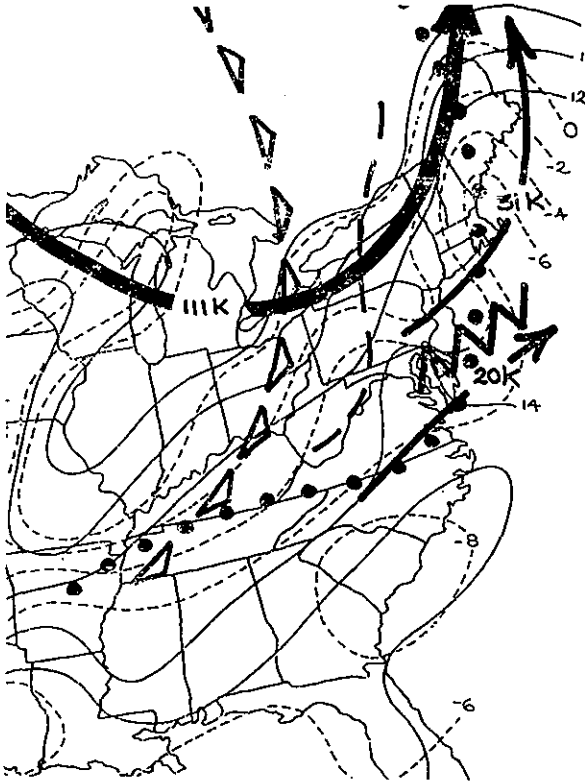


500 MB 6PM CST July 9, 1985



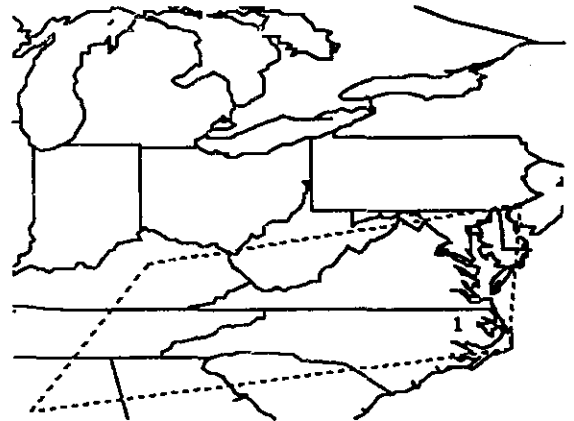
GOES 3PM CST July 9, 1985

No. 3 July 10, 1985

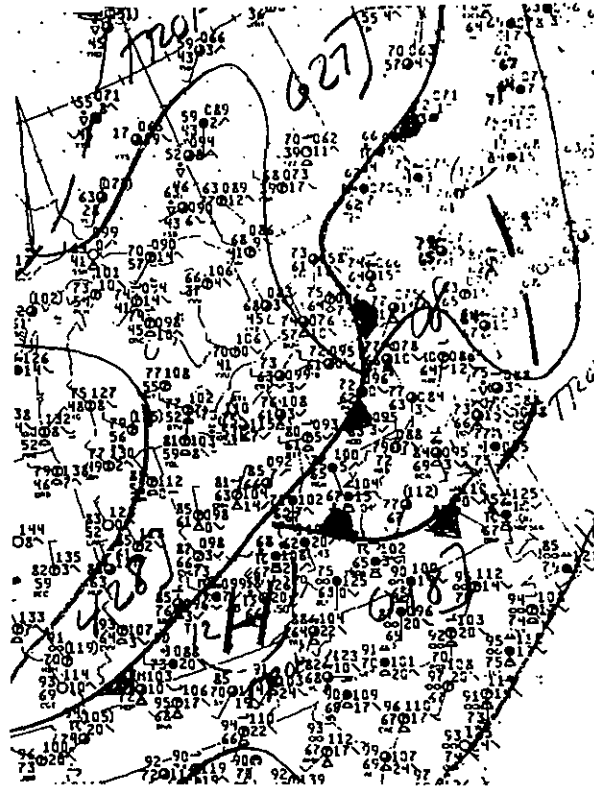


Composite 6PM CST July 10, 1985

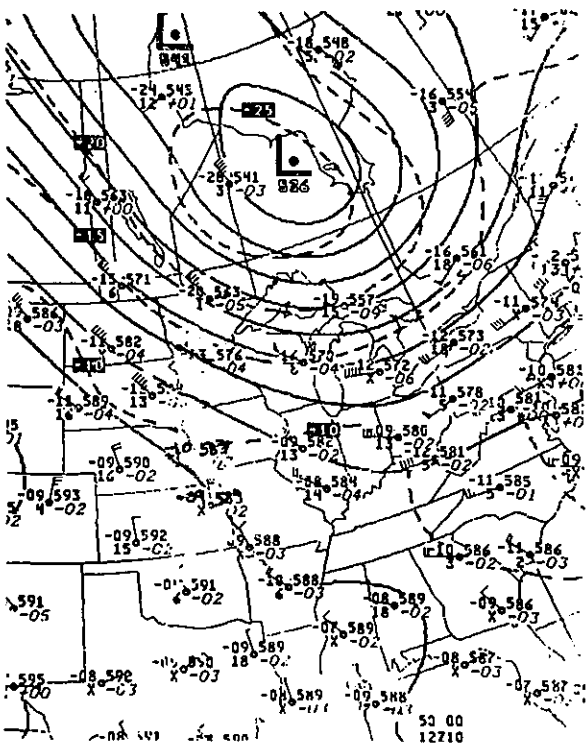
NO	TIME	EVENT	ST LOCATION	PRTH	KIL	INJ	DMS
1	1500	BURST	KC HERTFORD		2	4	



10JUL85 0830-2122 CST 77 REPORTS



Surface 3PM CST July 10, 1985

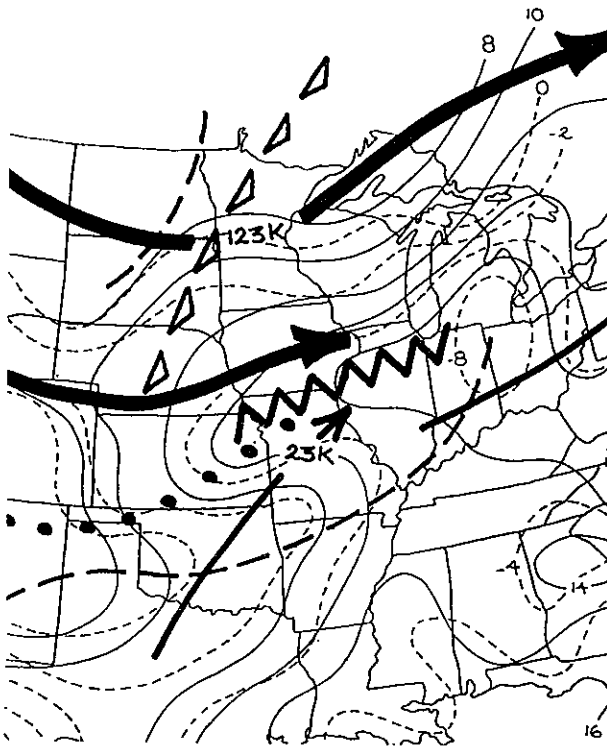


500 MB 6AM CST July 10, 1985

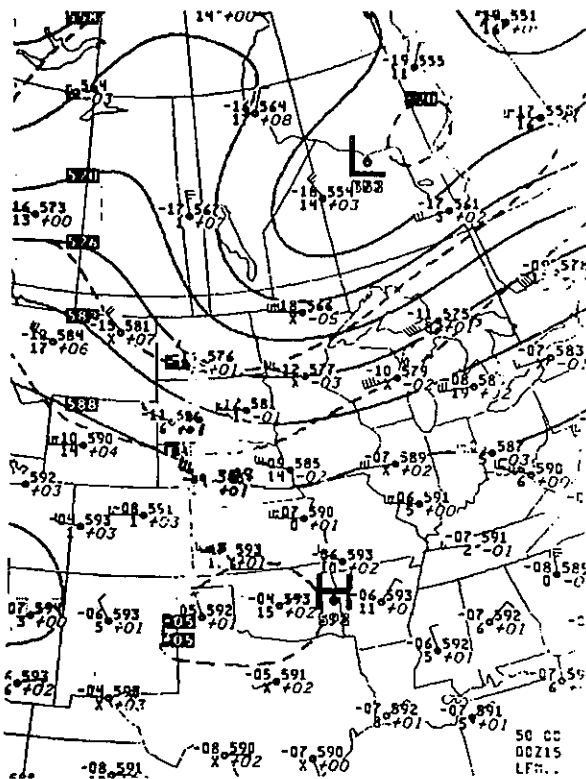


GOES 3PM CST July 10, 1985

No. 4 July 14-15, 1985

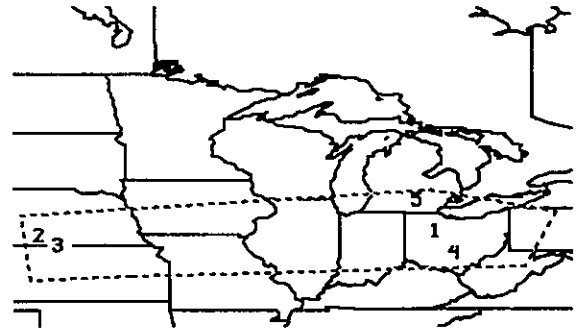


Composite 6PM CST July 14, 1985

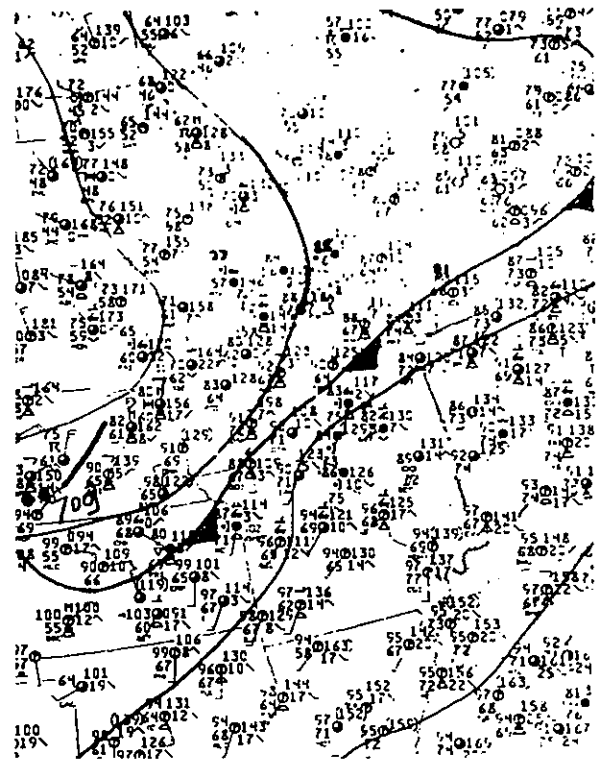


500 MB 6PM CST July 14, 1985

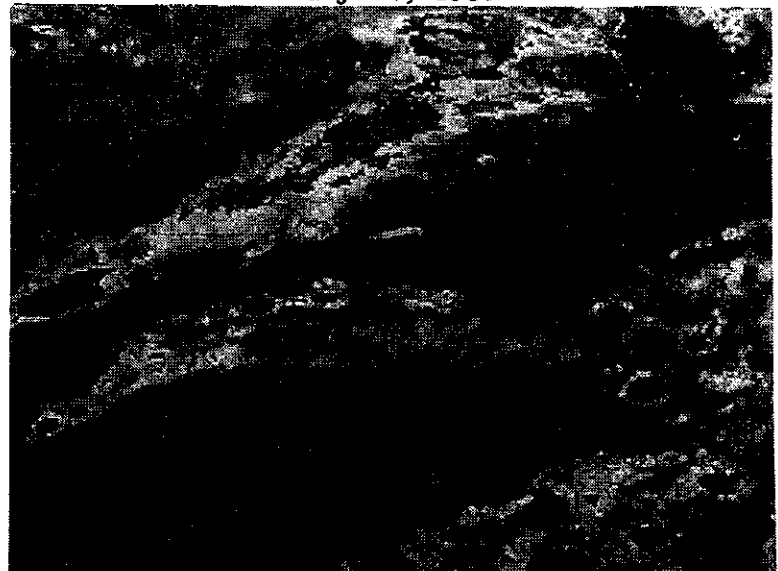
NO	TIME	EVENT	ST	LOCATION	PATH KIL	INJ	DMS
1	1500	BUST	OH	BLOOMHOLE		2	4
2	1520	3.00 INCH HAIL	NE	COZAD		7	7
3	1520	BUST 100 MPH	NE	FRANKFORD		7	7
4	1830	BUST	OH	DELAWARE COUNTY		1	4
5	0329	TORNADO-F2	MI	EAST LANSING	16		5



14JUL85-15JUL85 0840-0435 CST 34 REPORTS 3 TORNADOES



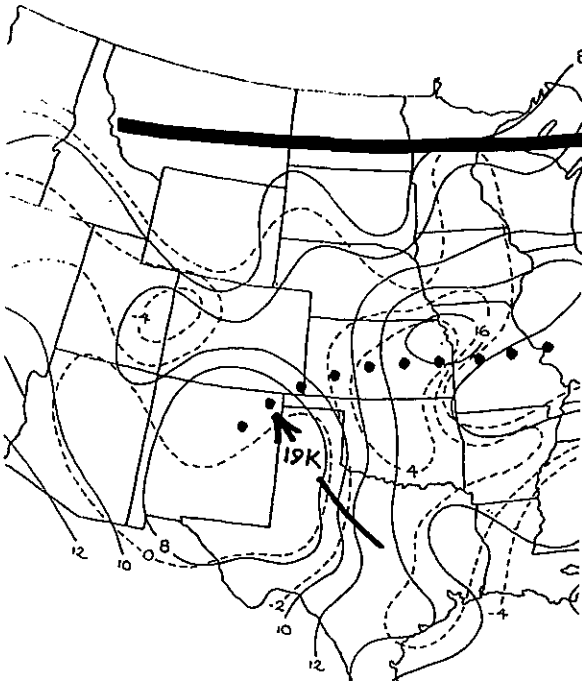
Surface 3PM CST July 14, 1985



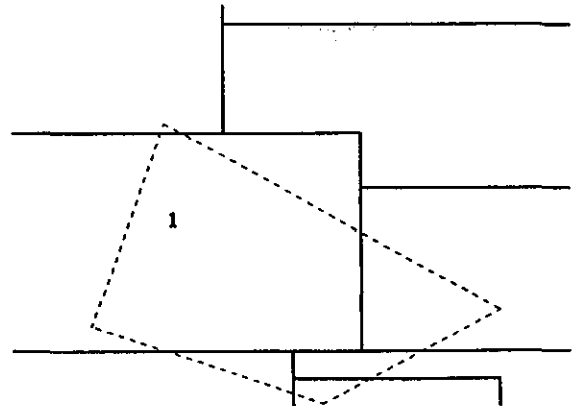
GOES 3PM CST July 14, 1985

No. 5 July 19, 1985

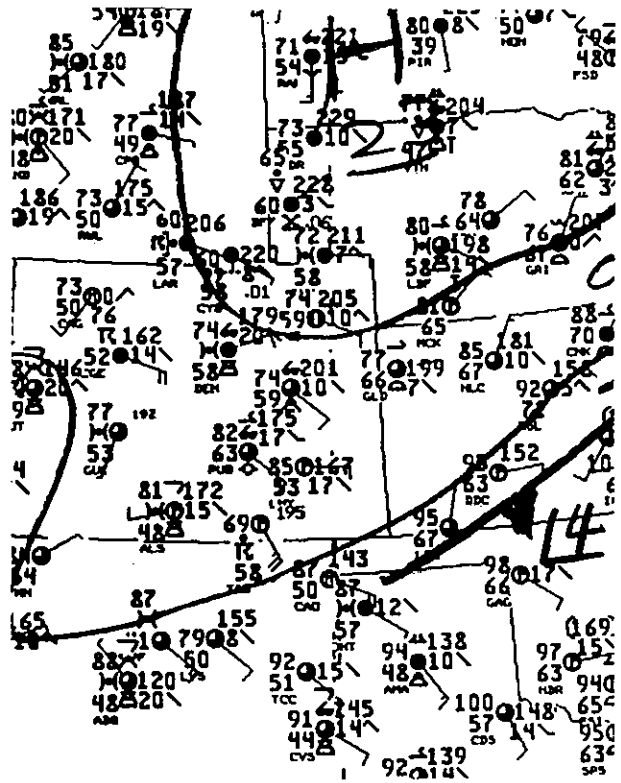
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1807	TORNADO-F2	CO	SURREY RIDGE			3	5



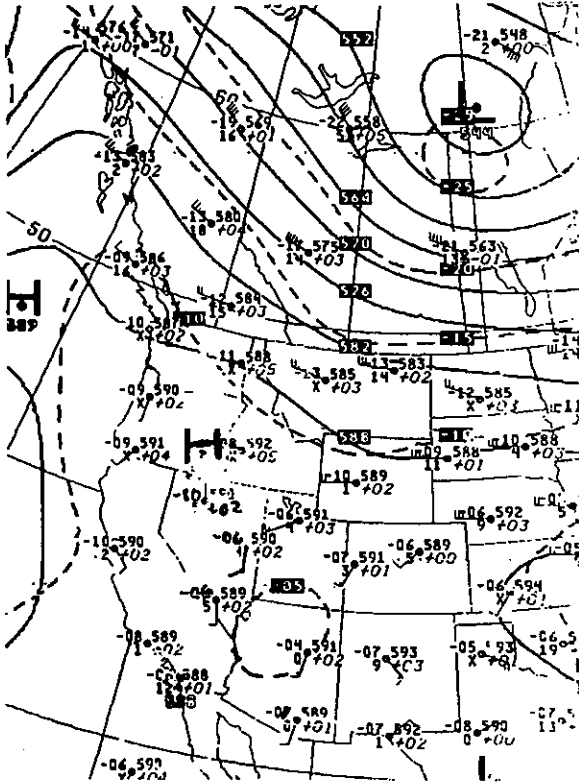
Composite 6PM CST July 19, 1985



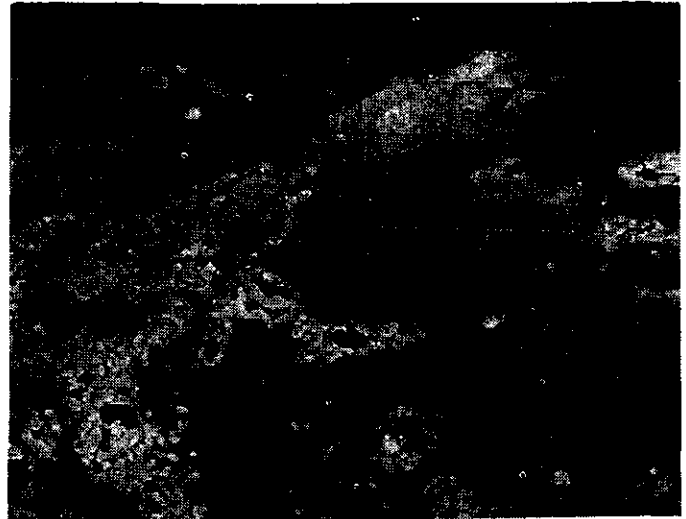
19JUL85 1345-2155 CST 9 REPORTS 2 TORNADOES



Surface 3PM CST July 19, 1985



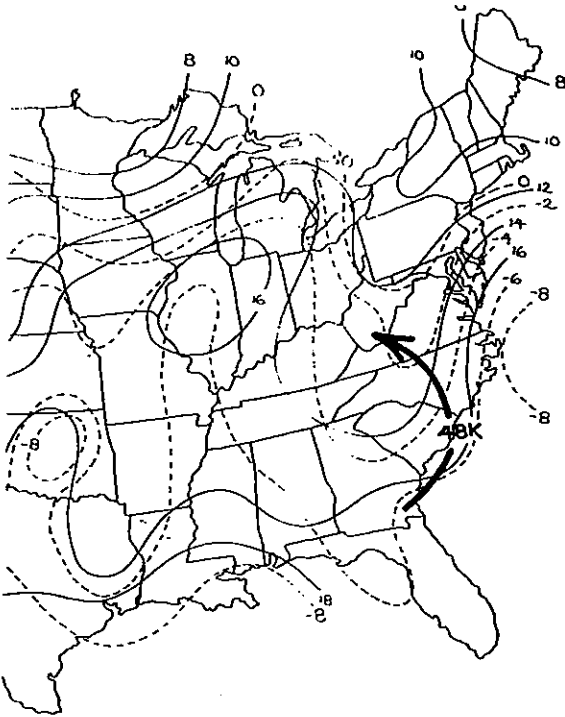
500 MB 6PM CST July 19, 1985



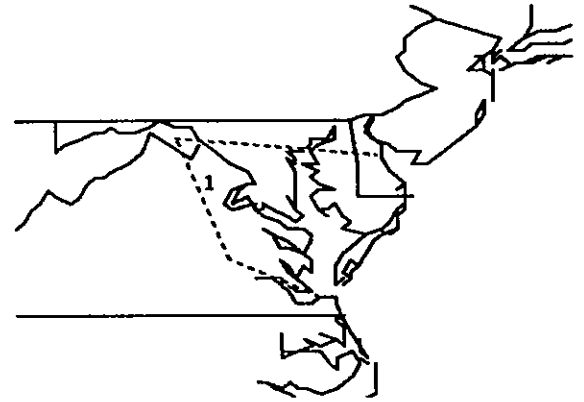
GOES 4:01 PM July 19, 1985

No. 6 July 25, 1985

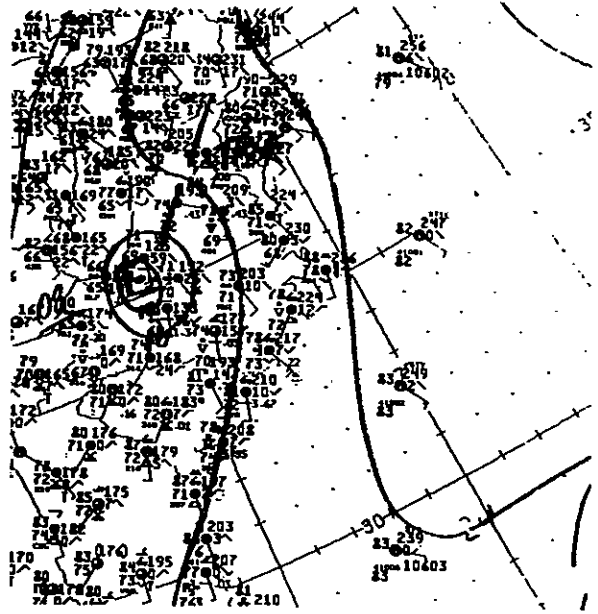
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1214	TORNADO-F3	VA	ALBEMARLE COUNTY				5



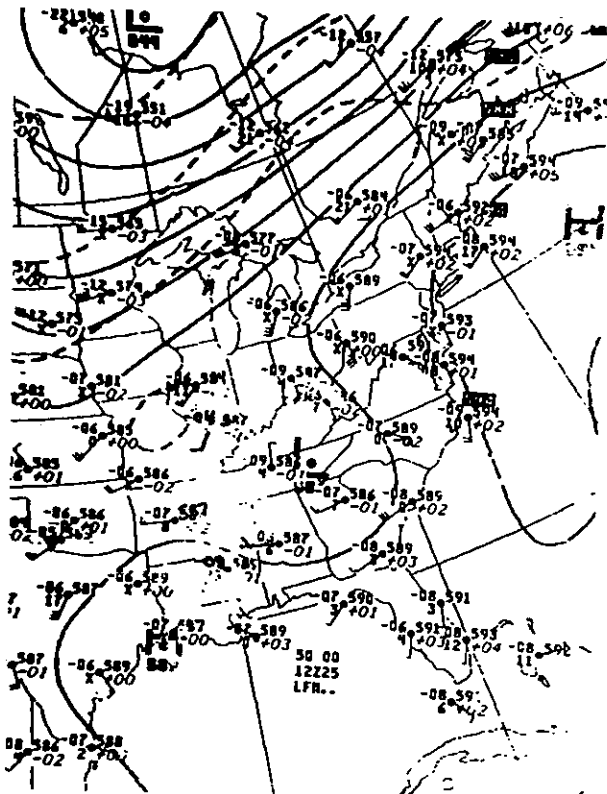
Composite 6AM CST July 25, 1985



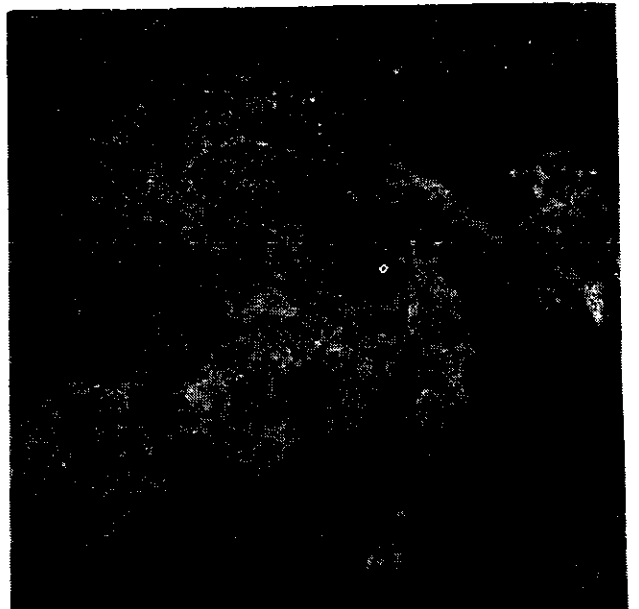
HURRICANE BOB 25JUL85 1025-1500 CST 6 TORNADOES



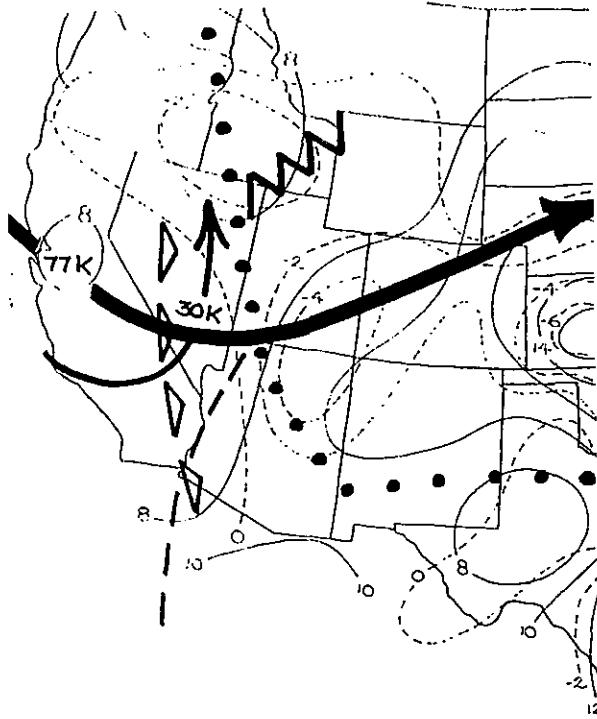
Surface 12 Noon CST July 25, 1985



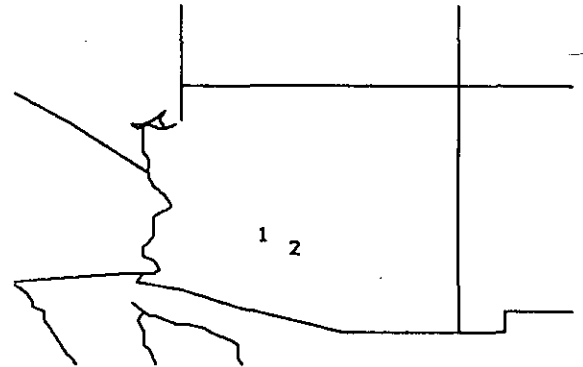
500 MB 6AM CST July 25, 1985



No. 7 July 29, 1985

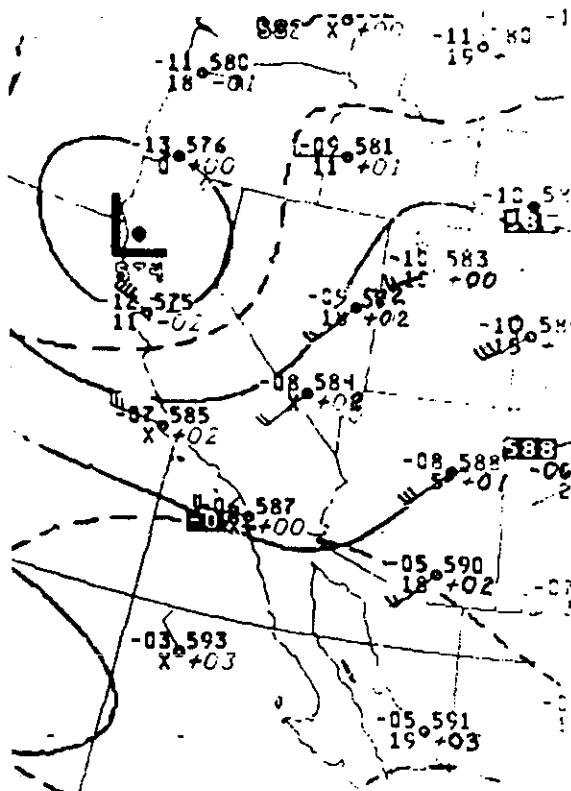


NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	2245	GUST 70 MPH	RZ	WHITMAN		12	5	
2	2315	GUST 90 MPH	RZ	PHOENIX		6	5	

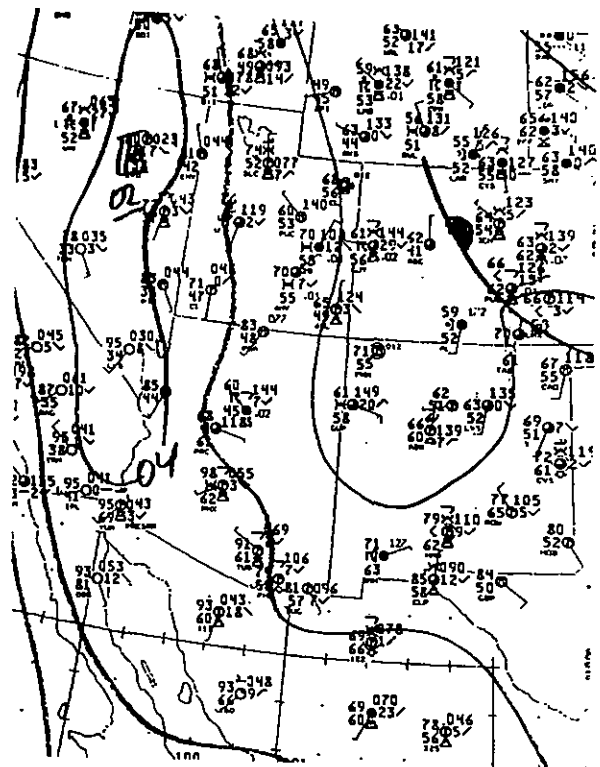


29JUL85 THUNDERSTORM WINDS PHOENIX AND VICINITY

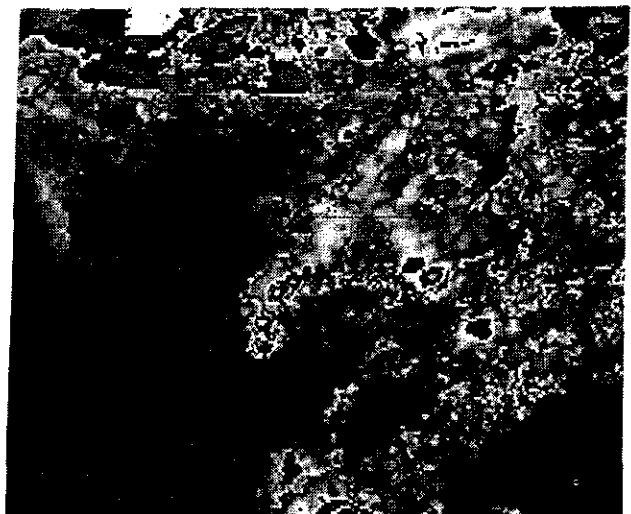
Composite 6PM CST July 29, 1985



500 MB 6PM CST July 29, 1985

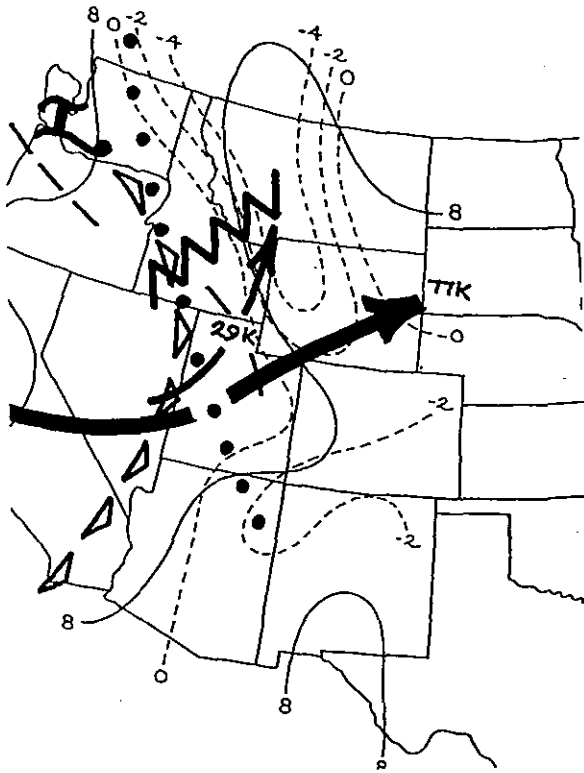


Surface 9PM CST July 29, 1985

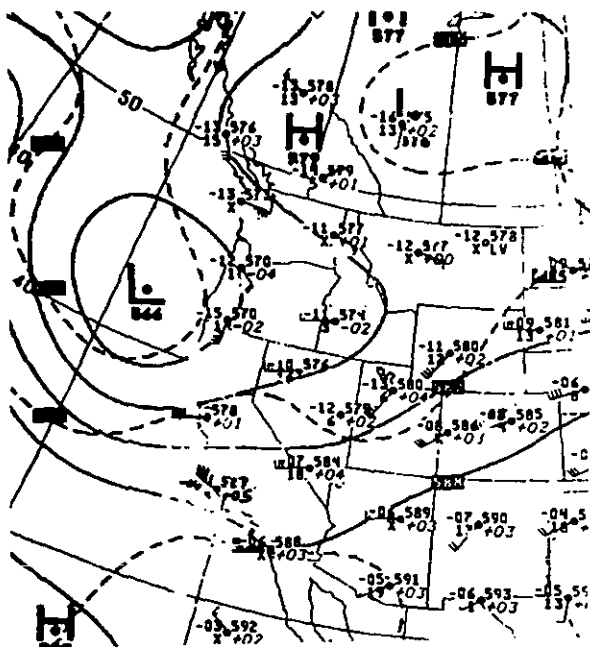


GOES 11PM CST July 29, 1985

No. 8 July 30, 1985

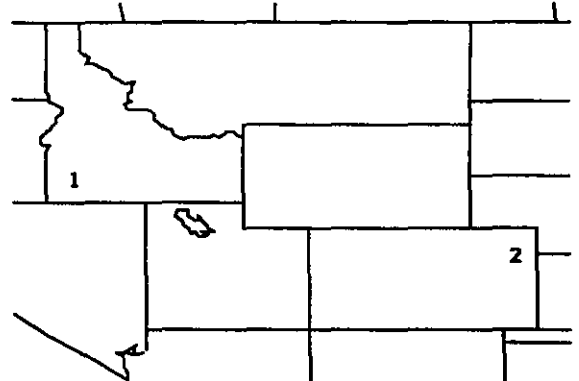


Composite 6PM CST July 30, 1985

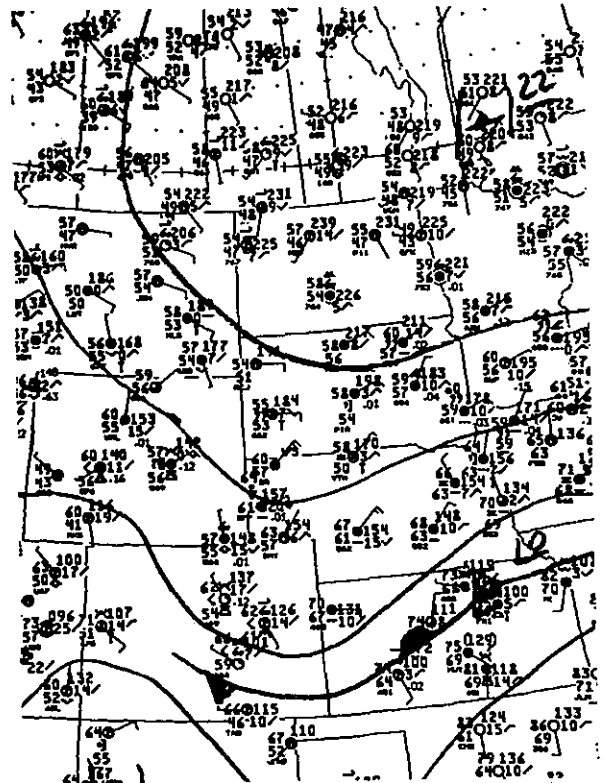


500 MB 6PM CST July 30, 1985

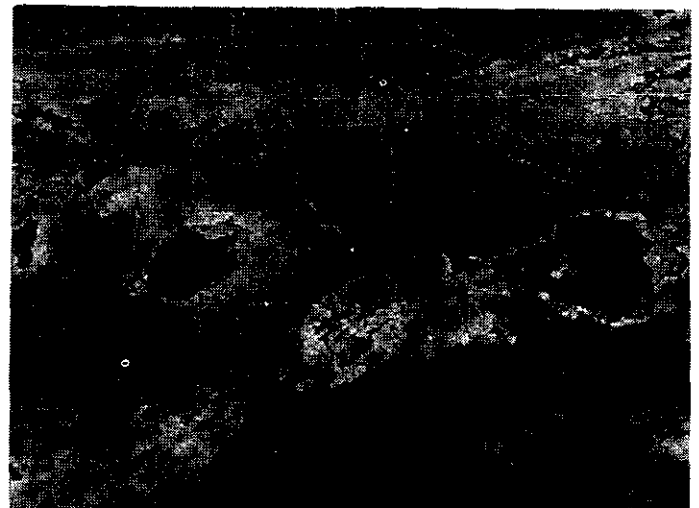
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1800	HAIL	ID					
2	0020	TORNADO-F2	CO	12 NE YUMA		2	5	5



30JUL85-31JUL85 SEVERE WEATHER IN THE WESTERN STATES

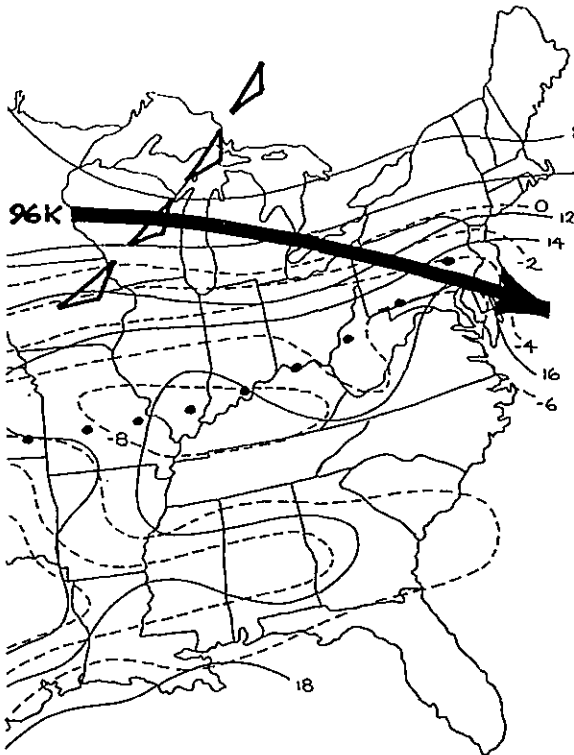


Surface 12 Midnight CST July 30, 1985

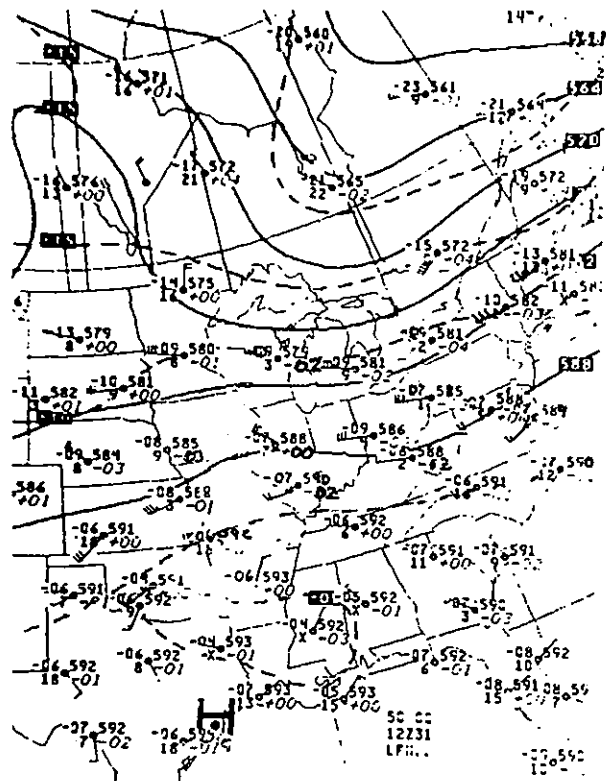


GOES 12 Midnight CST July 30, 1985

No. 9 July 31, 1985

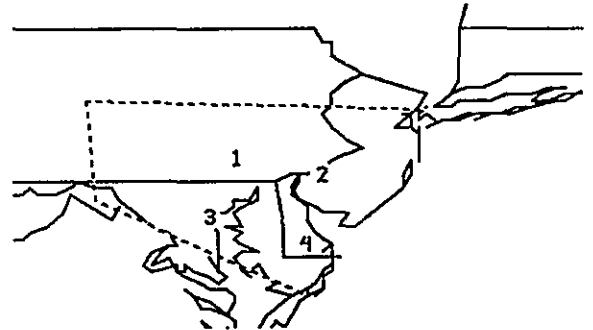


Composite 6PM CST July 31, 1985

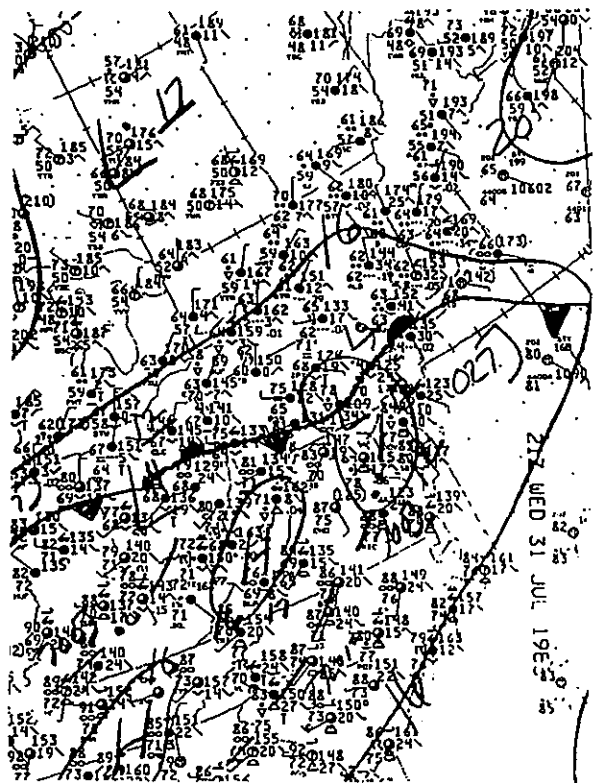


500 MB 6PM CST July 31, 1985

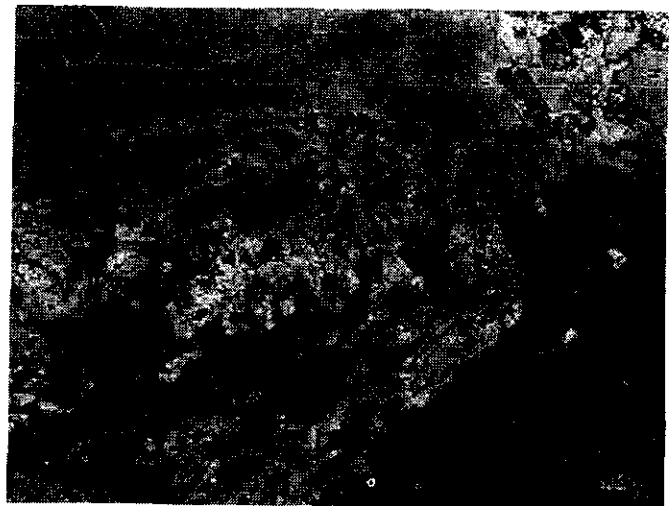
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1405	TORNADO-F2	PA	MINNIECH	3	2	5	
2	1610	TORNADO-F1	PA	PHILADELPHIA	2	1	3	
3	1630	GUST	MD	PASADENA			5	
4	1630	GUST	DE	ELLENDALE		2	4	



31JUL85 1025-1630 CST 10 REPORTS 3 TORNADOES



Surface 3PM CST July 31, 1985

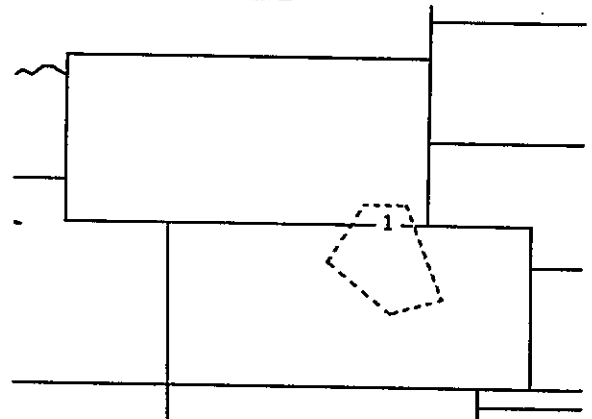


GOES 2:31PM CST July 31, 1985

No. 10 August 1, 1985

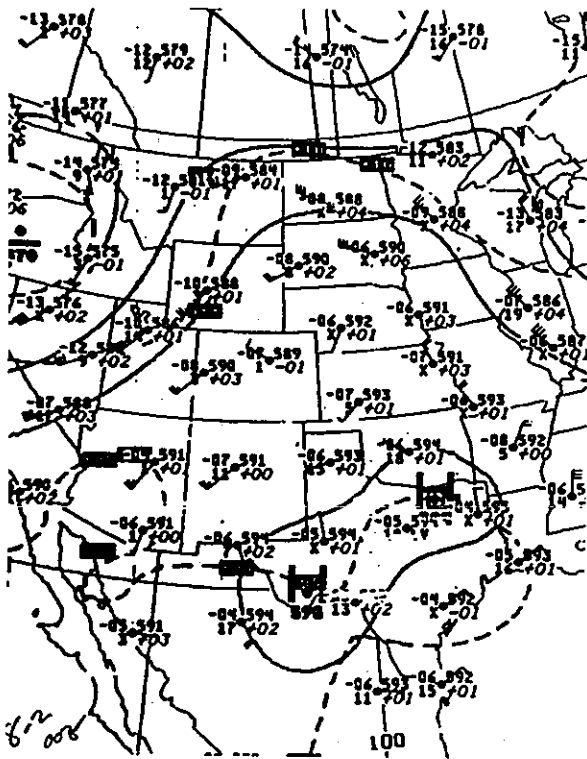
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DNG
1	1800	2.00 INCH HAIL	WY	CHEYENNE				
	1800	GUST	WY	CHEYENNE				

INSUFFICIENT DATA

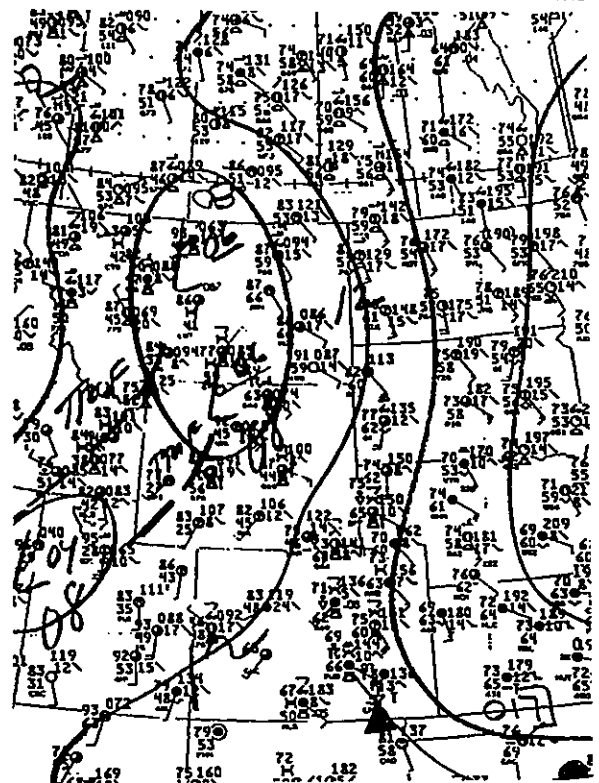


01AUG85 1340-2025 CST 8 REPORTS FLOODING IN CHEYENNE

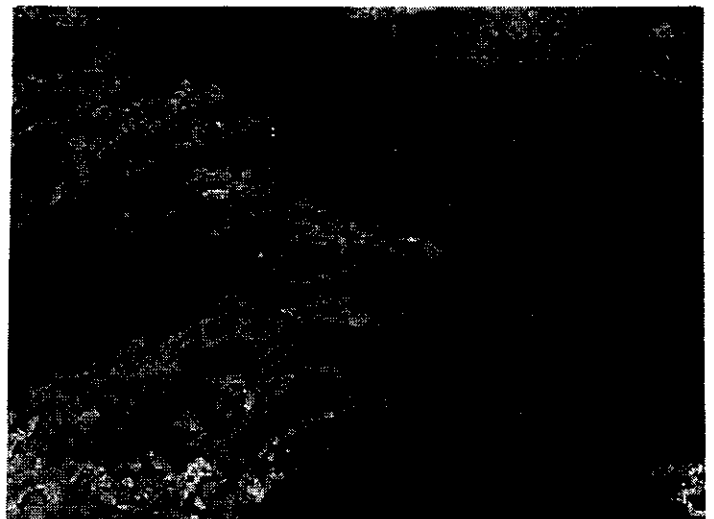
Composite 6PM CST August 1, 1985



500 MB 6PM CST August 1, 1985

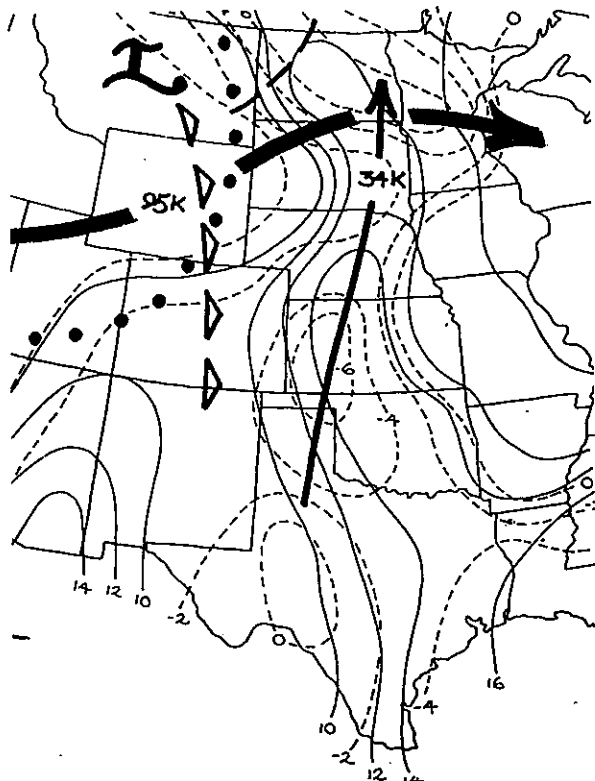


Surface 6PM CST August 1, 1985

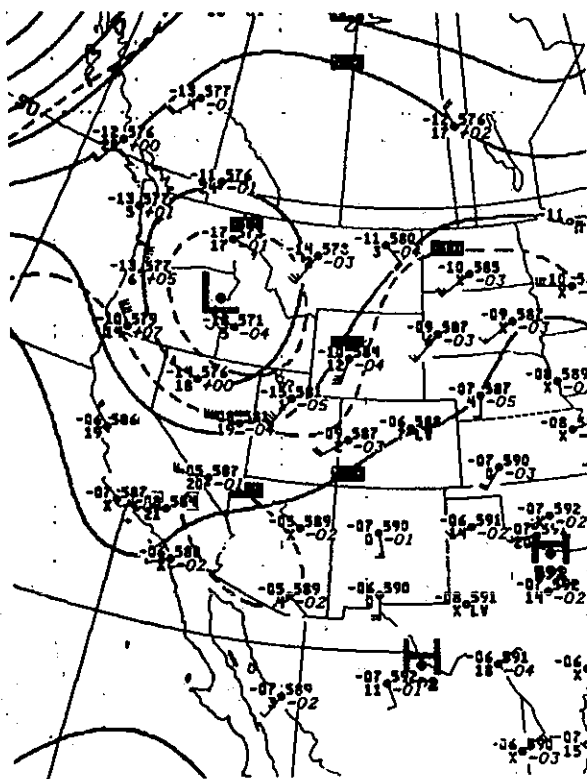


GOES 5PM CST August 1, 1985

No. 11 August 2, 1985

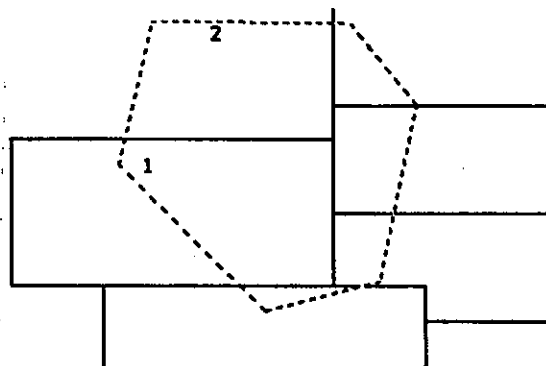


Composite 6PM CST August 2, 1985

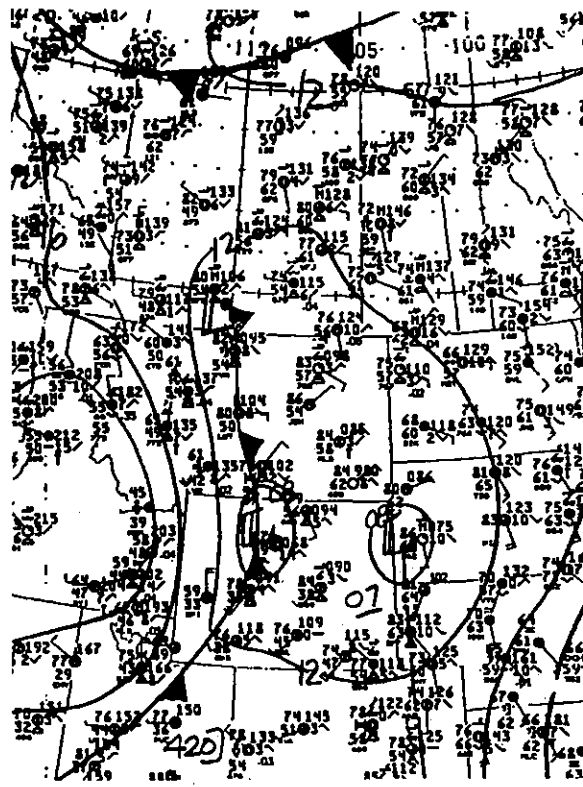


500 MB 6AM CST August 2, 1985

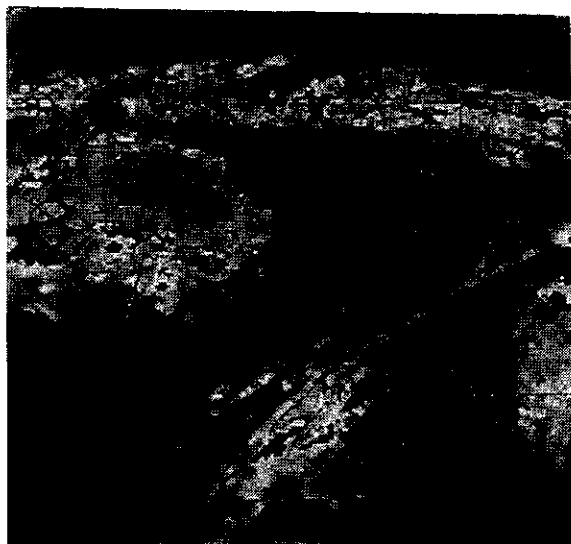
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1330	TORNADO-F3	NY	SEB HORN COUNTY				
2		BUST	MT	BLANSON				6



02AU685 1500-2150 CST 12 REPORTS



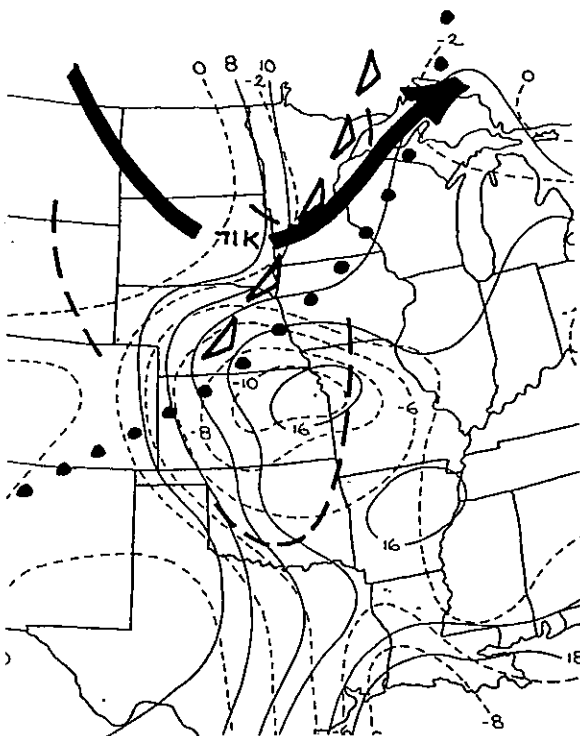
Surface 12 Noon CST August 2, 1985



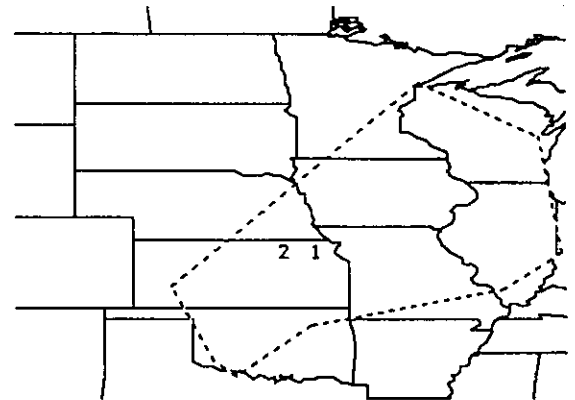
GOES 1:01PM CST August 2, 1985

No. 12 August 6, 1985

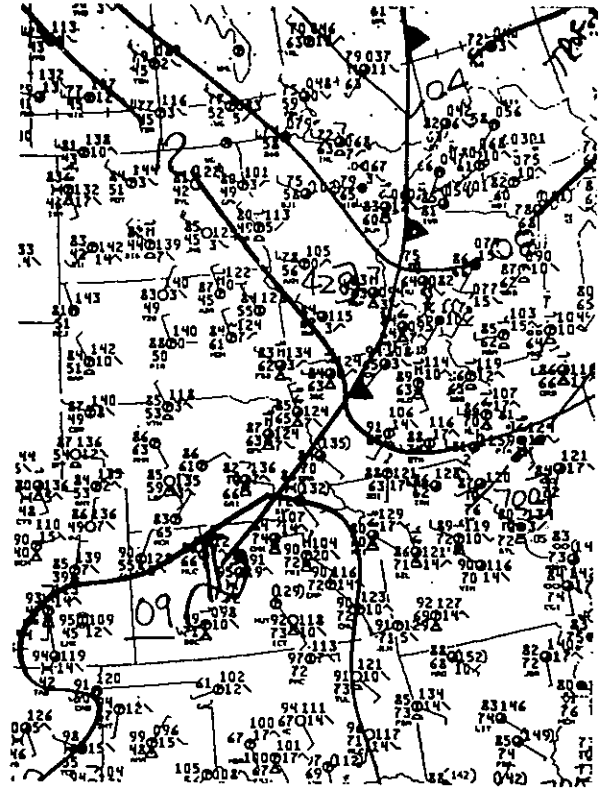
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1715	GUST 75 MPH	KS	BERNICK			1	5
2	1735	2.75 INCH HAIL	KS	HANOVER				7



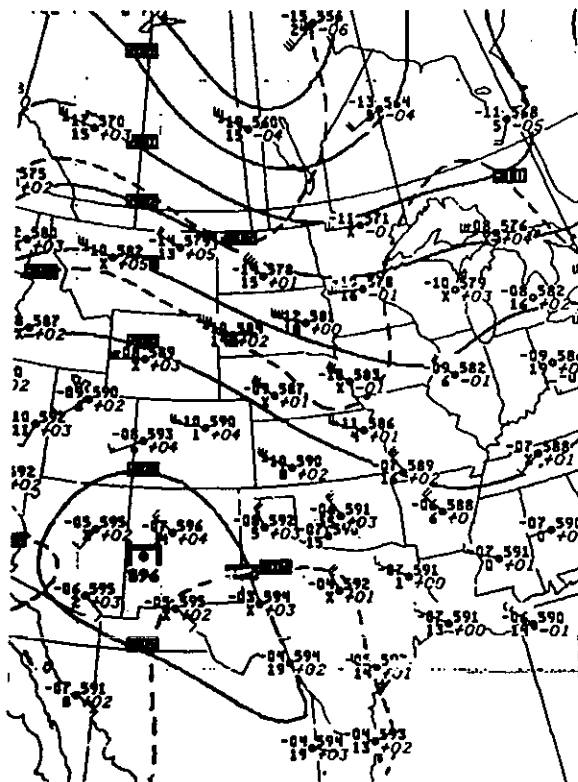
Composite 6PM CST August 6, 1985



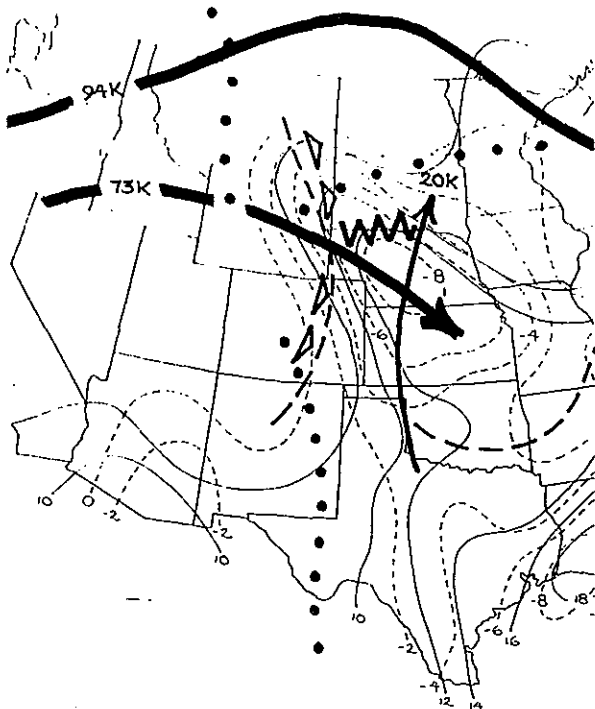
06AU685-07AU685 1315-0155 CST 63 REPORTS 1 TORNADO



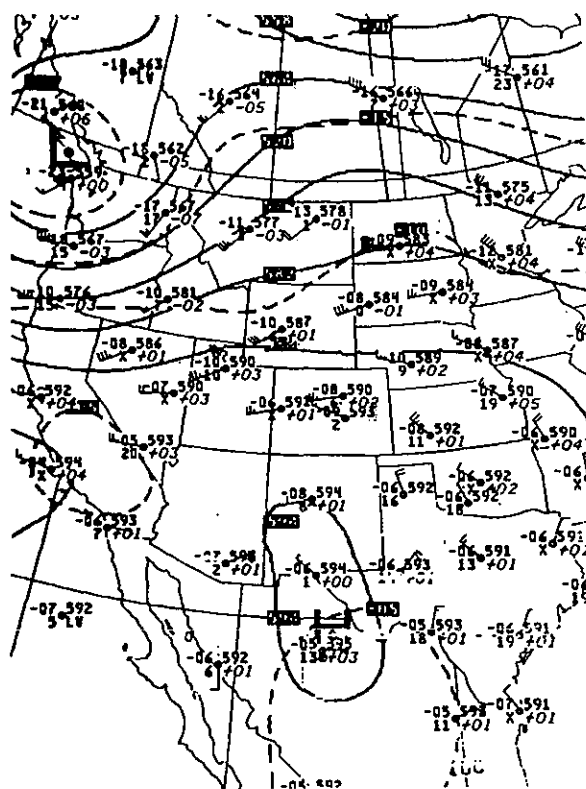
Surface 3PM CST August 6, 1985



No. 13 August 7, 1985

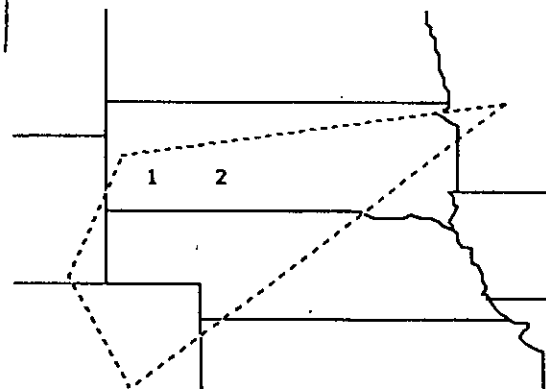


Composite 6PM CST August 7, 1985

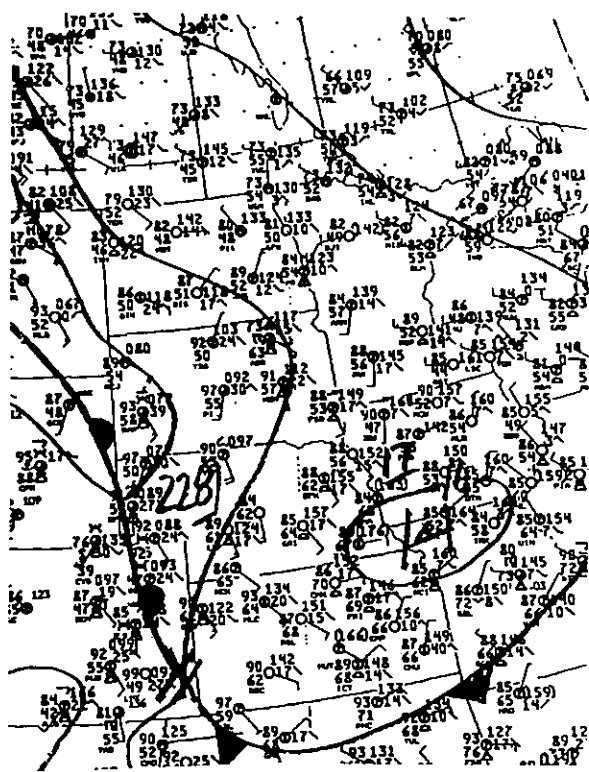


500 MB 6PM CST August 7, 1985

NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1801	2.00 INCH HAIL	SD	RAPID CITY				4
2	1920	BUST 80 MPH	SD	PHILIP				4



07RU685 1335-2007 CST 21 REPORTS 1 TORNADO

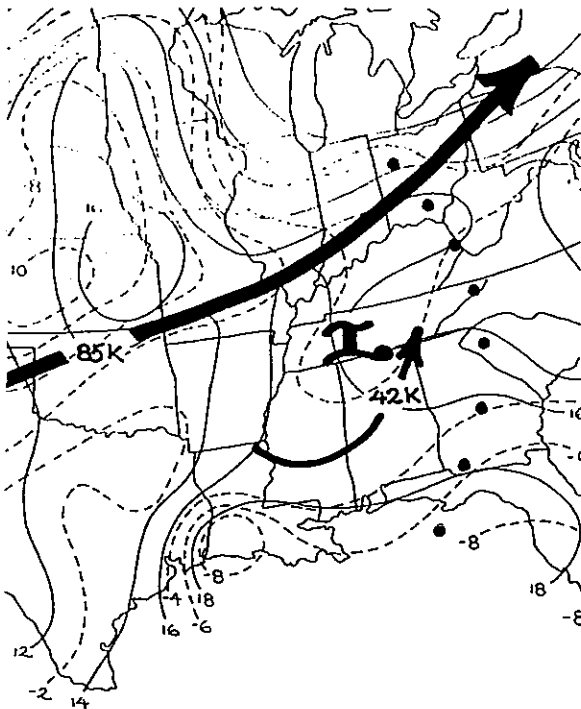


Surface 3PM CST August 7, 1985

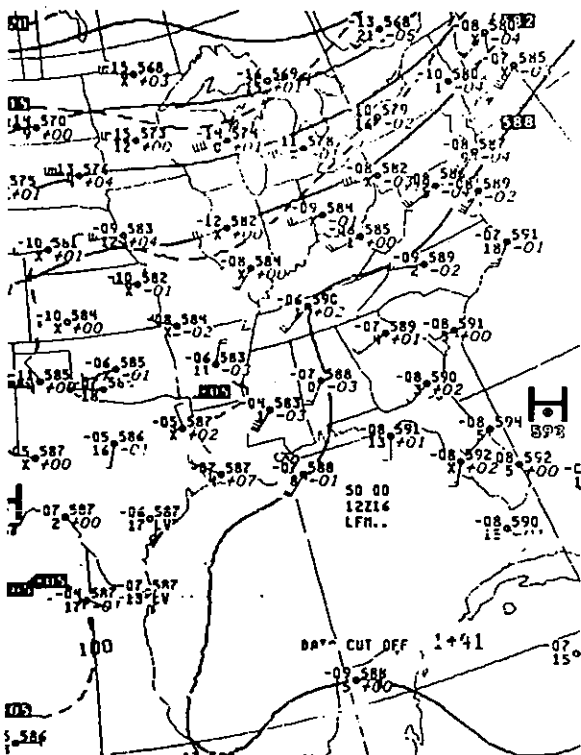


GOES 5PM CST August 7, 1985

No. 15 August 16, 1985



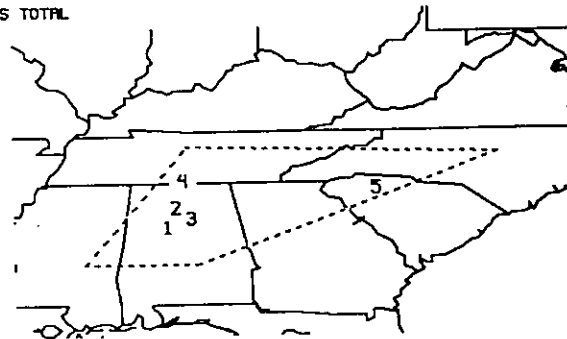
Composite 6PM CST August 16, 1985



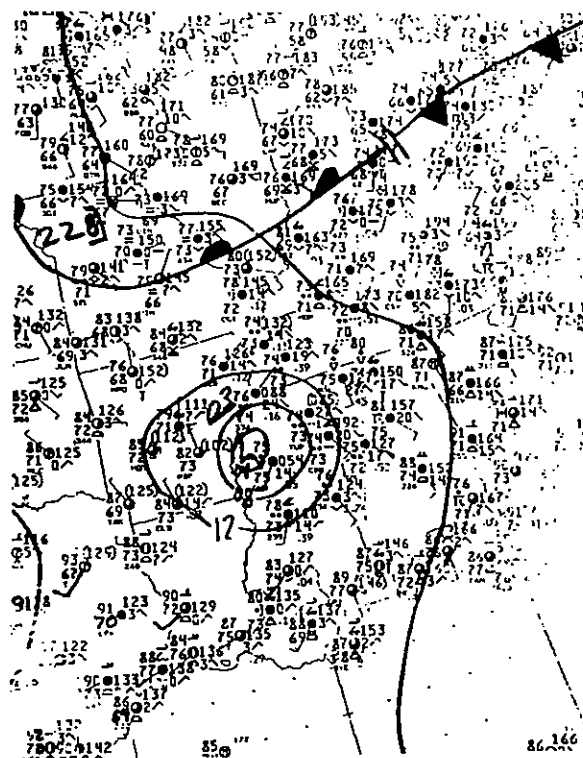
500 MB 6AM CST August 16, 1985

NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1000	TORNADO-F1	AL	PARRISH	1	1	1	6
2	1140	TORNADO-F3	AL	DANNVILLE	45	2	6	6
3	1315	TORNADO-F3	AL	BERLIN	34	1	6	6
4	1400	TORNADO-F3	TN	PULASKI	12	1	6	6
5	1050	TORNADO-F2	SC	VALLEY FALLS	9	39	6	6

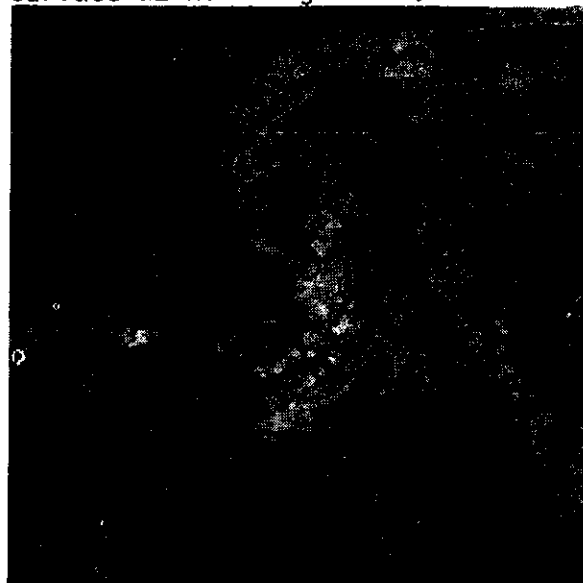
63 INJURIES TOTAL



TROPICAL STORM DANNY 16AUG85-17AUG85 36 TORNADOES

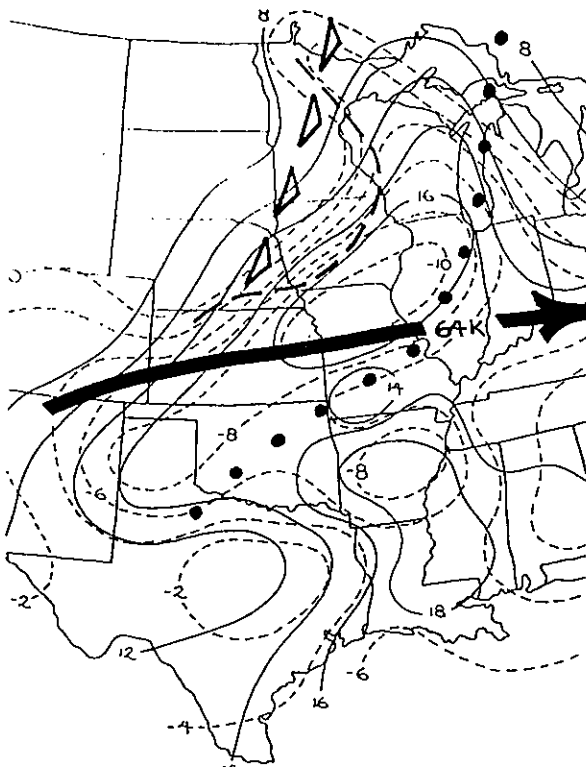


Surface 12 Noon August 16, 1985



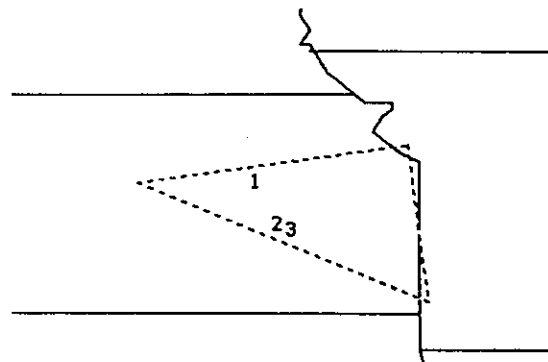
GOES 2PM CST August 16, 1985

No. 16 August 17, 1985

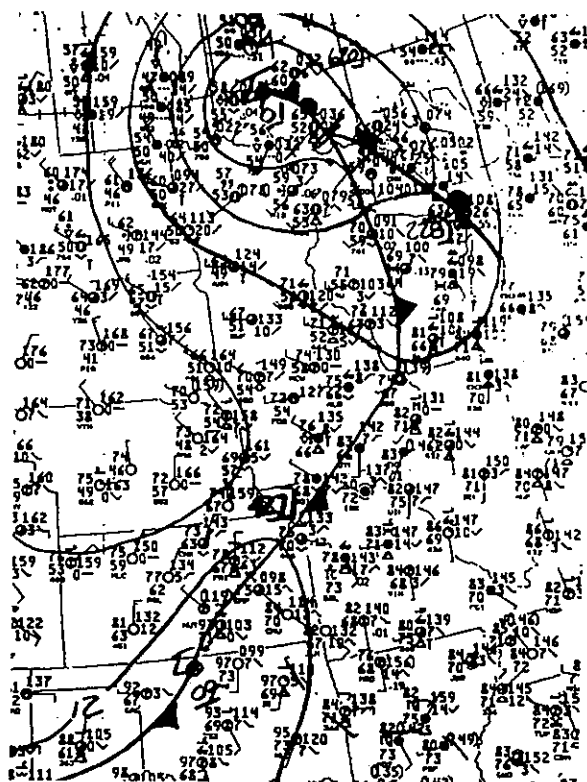


Composite 6PM CST August 17, 1985

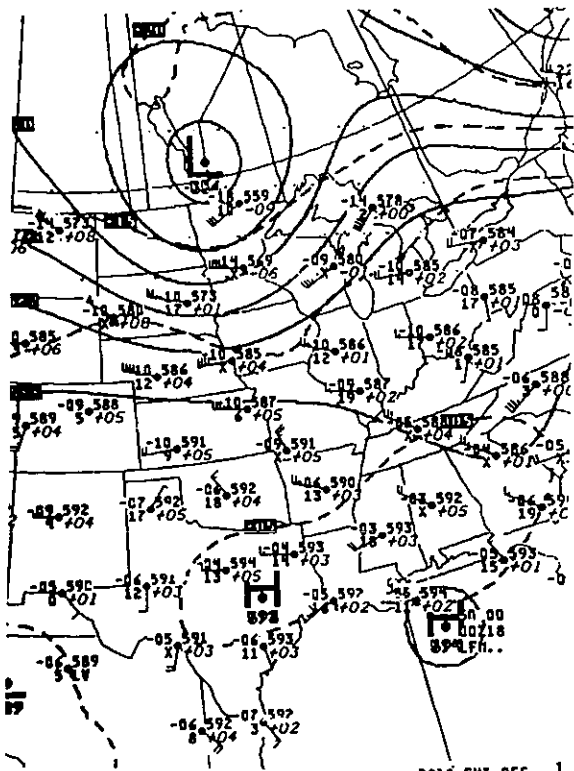
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1718	TORNADO-F3	KS	6 SE ALTA VISTA	2			5
2	1830	BUST 80 MPH	KS	3 W EMPORIA		1	5	
3	1845	BUST 100 MPH	KS	OLPE			1	



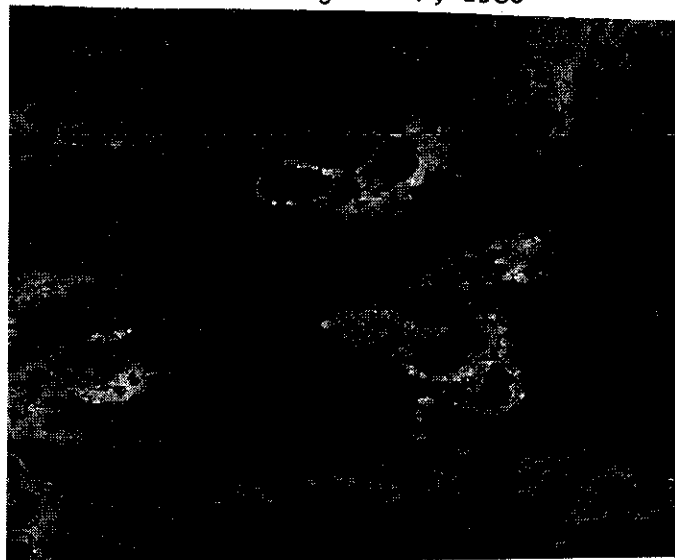
17AUG85 1718-2330 CST 13 REPORTS 3 TORNADOES



Surface 6PM CST August 17, 1985



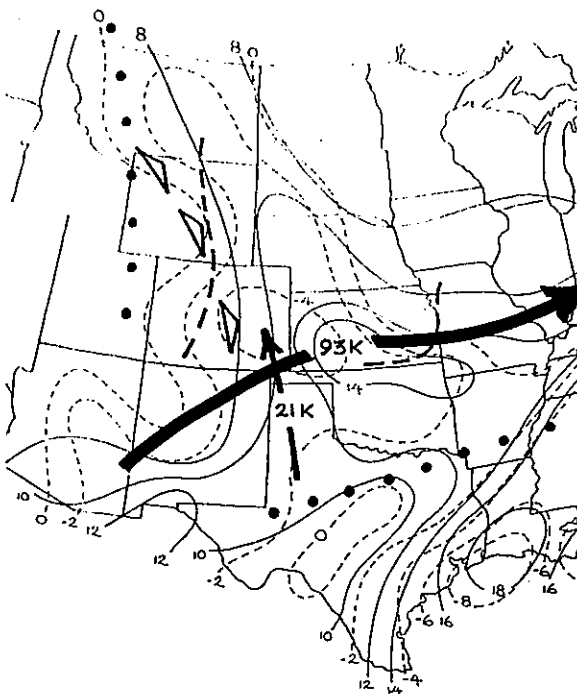
500 MB 6PM CST August 17, 1985



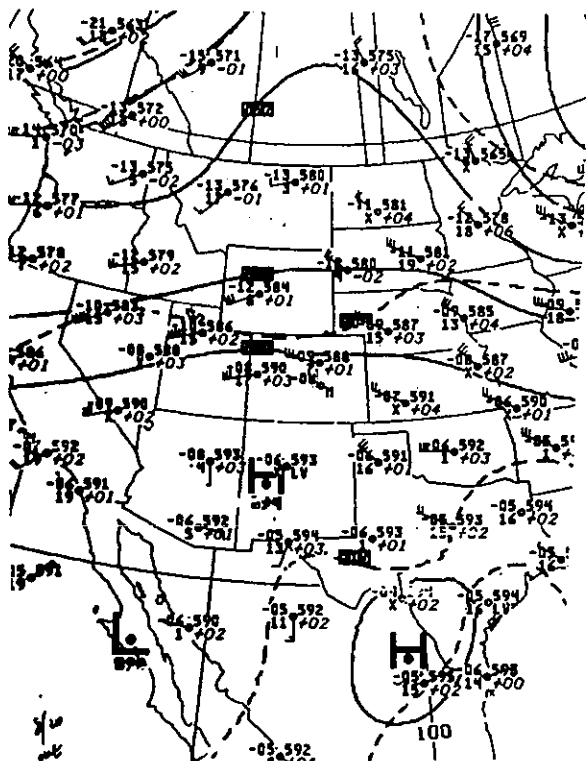
GOES 6PM CST August 17, 1985

No. 17 August 19, 1985

NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1900	3.00 INCH HAIL	CO	COLORADO SPRINGS				1 6

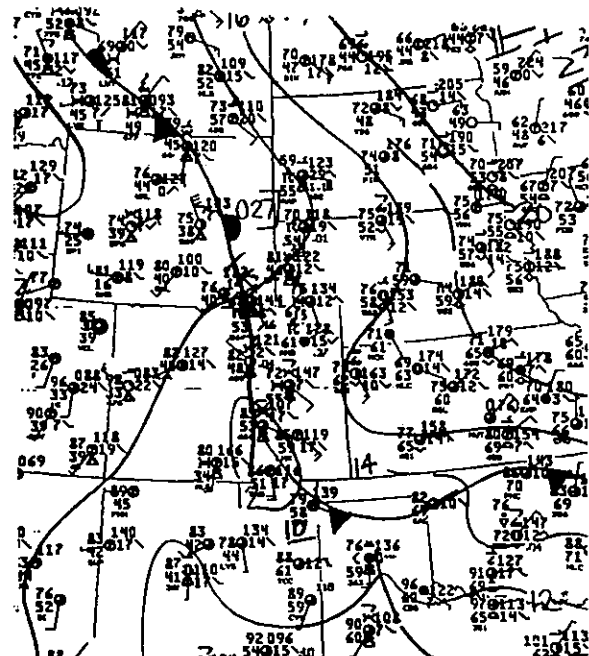


Composite 6PM CST August 19, 1985



500 MB 6PM CST August 19, 1985

19AU685-20RU685 1614-0020 CST 12 REPORTS

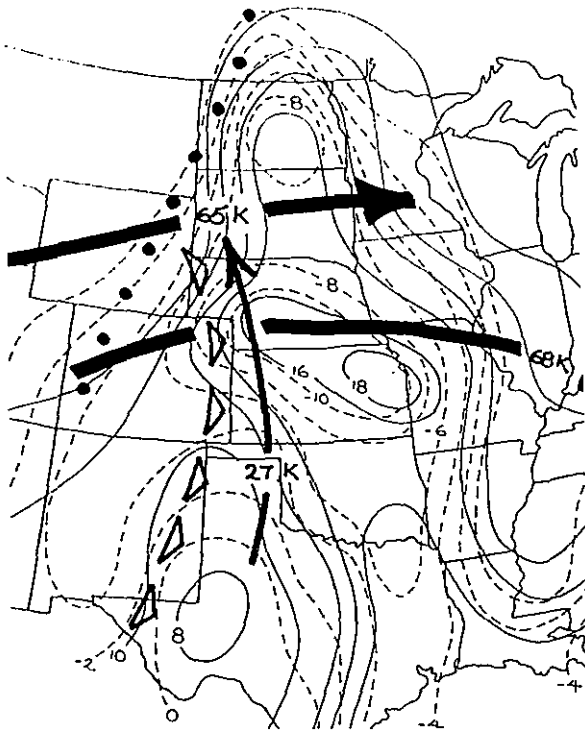


Surface 6PM CST August 19, 1985

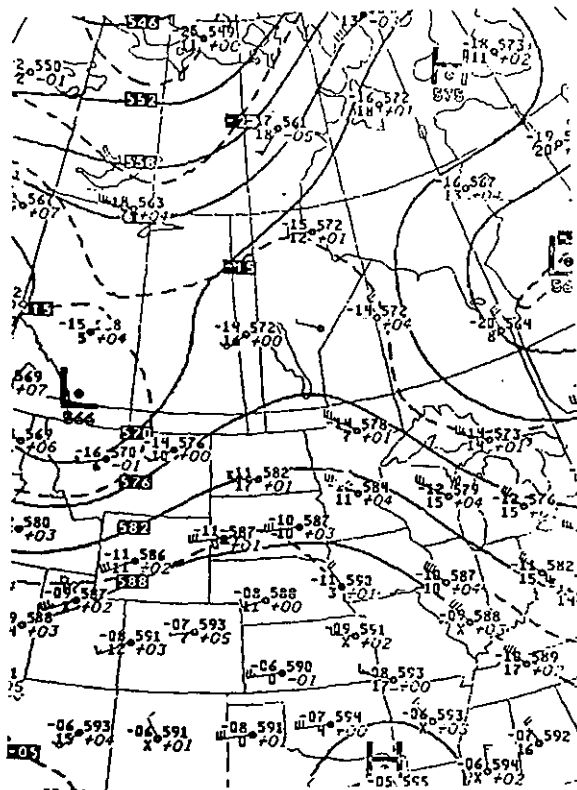


GOES 7:01PM CST August 19, 1985

No. 18 August 21, 1985

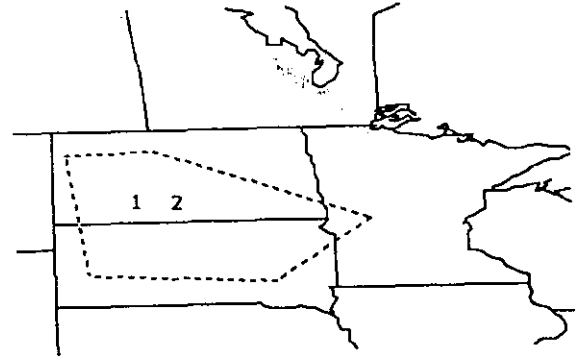


Composite 6PM CST August 21, 1985

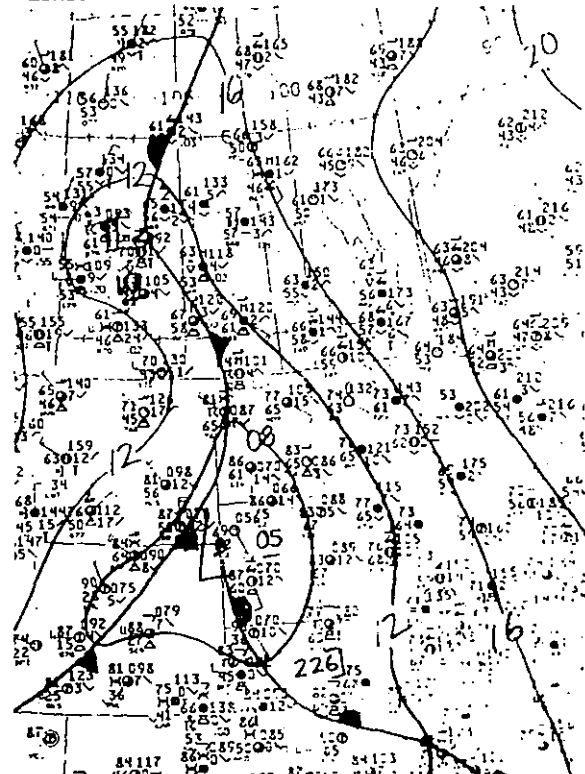


500 MB 6PM CST August 21, 1985

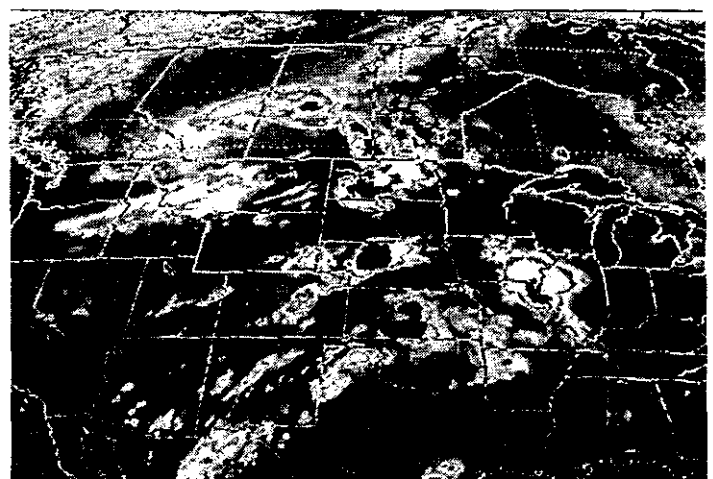
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1952	GUST 70 MPH	NO	GLENN ULLIN			2	5
2	2121	GUST 70 MPH	NO	BISHARCK				5



21AUG85-22AUG85 0620-0230 CST 20 REPORTS

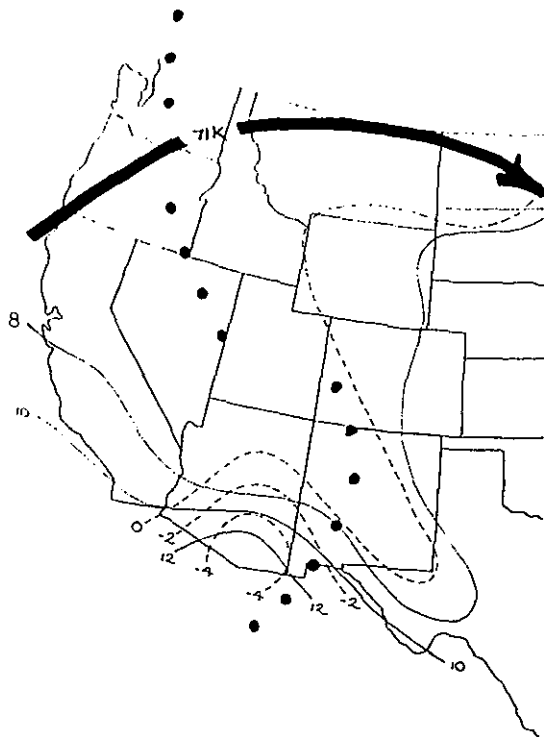


Surface 6PM CST August 21, 1985

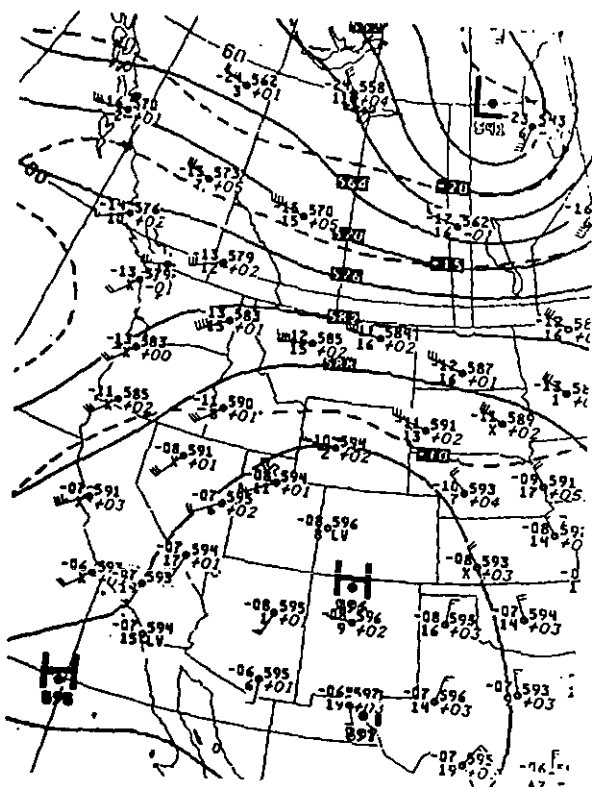


GOES 8 PM CST August 21, 1985

No. 19 August 26, 1985

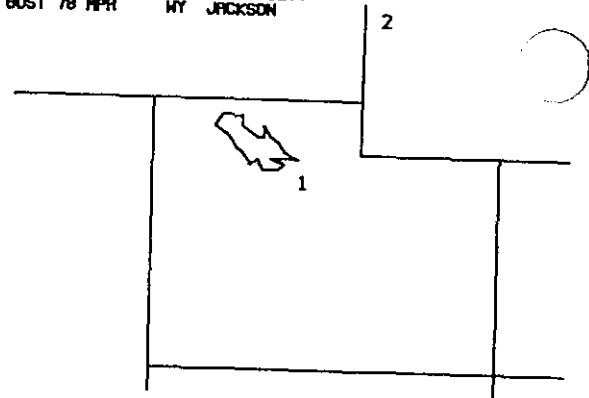


Composite 6PM CST August 26, 1985

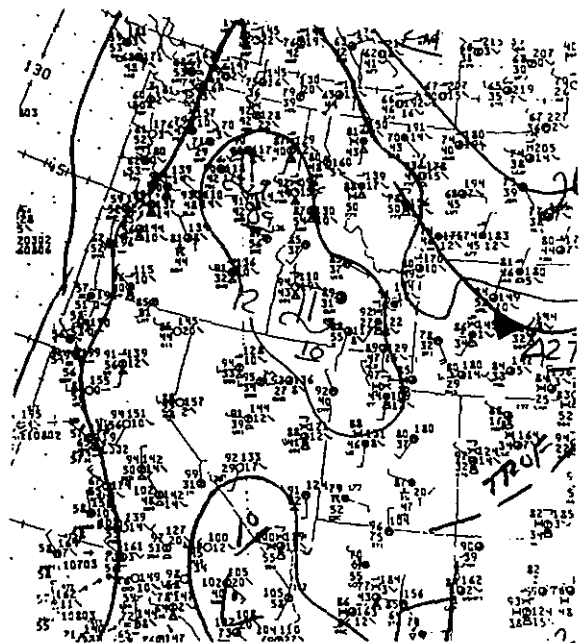


500 MB 6PM CST August 26, 1985

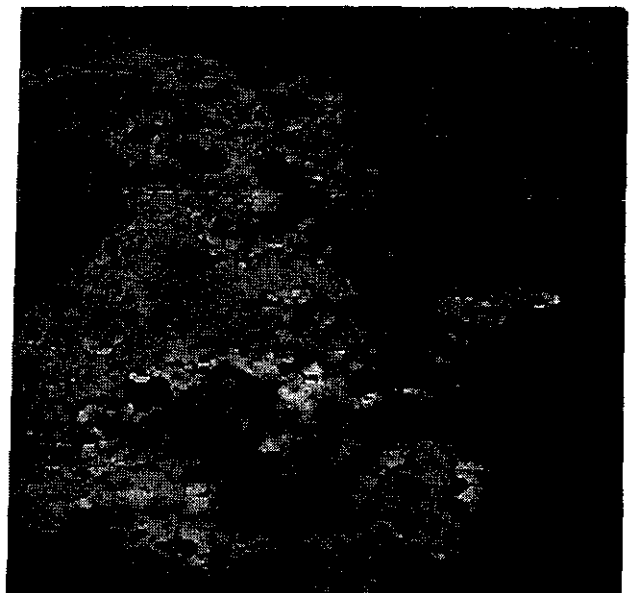
NO	TIME	EVENT	ST	LOCATION
1	1905	GUST 91 MPH	UT	SANDY CITY
2	1910	GUST 78 MPH	WY	JACKSON



26AUG85 SEVERE THUNDERSTORMS IN THE CENTRAL PLATEAU

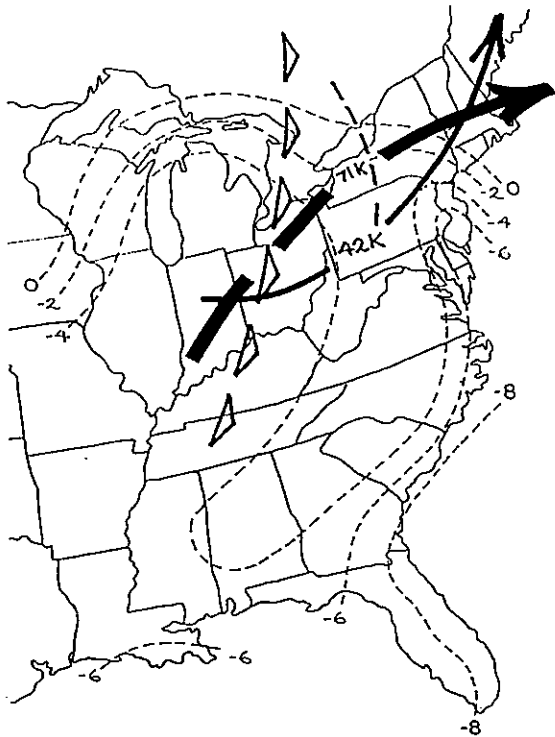


Surface 6PM CST August 26, 1985



GOES 7:01PM CST August 26, 1985

No. 20 August 30, 1985

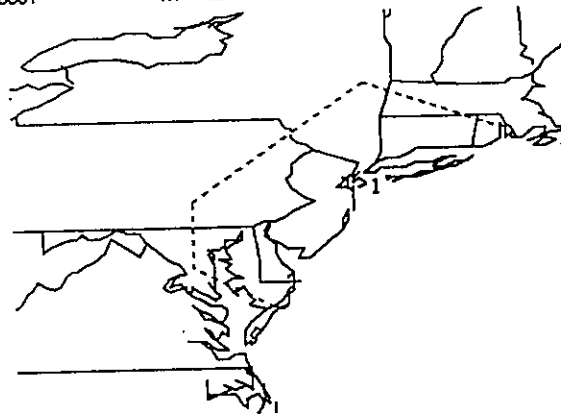


Composite 6AM CST August 30, 1985

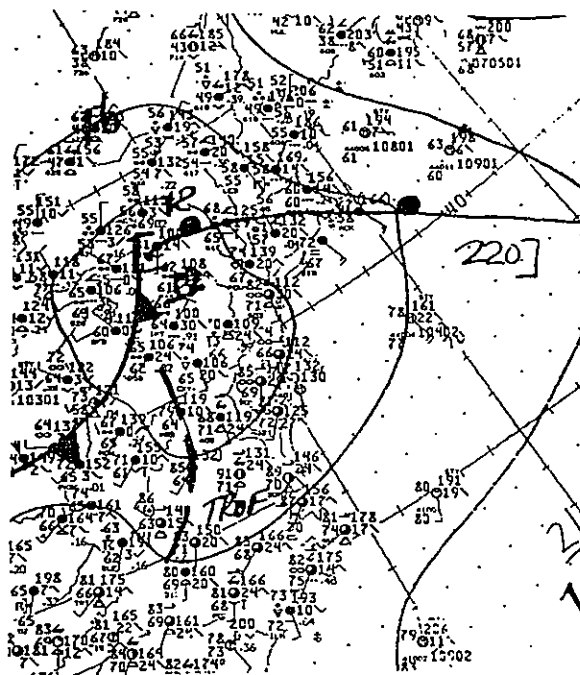
NO TIME EVENT
1 1345 BUST

ST LOCATION
NY NEW YORK CITY

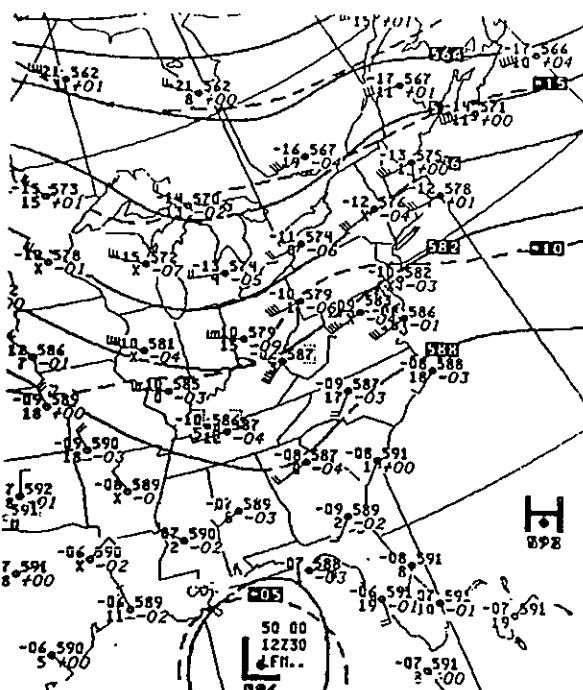
PATH KIL INJ DMG
7



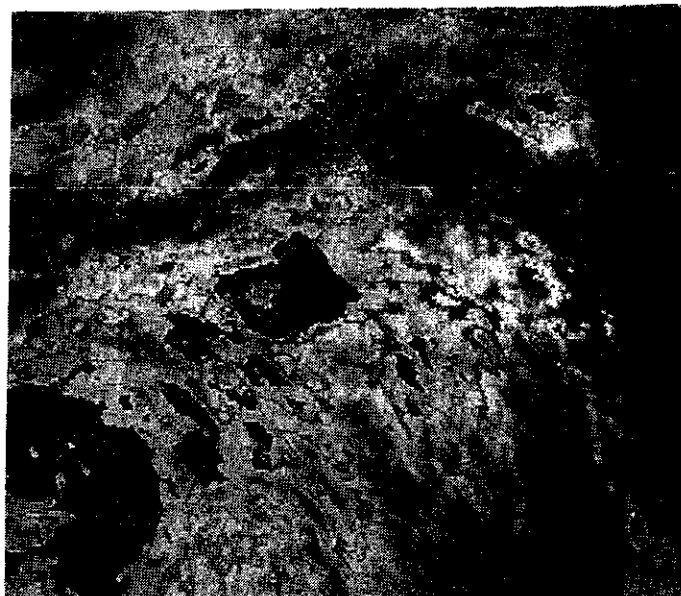
30RU685 1050-1500 CST 16 REPORTS



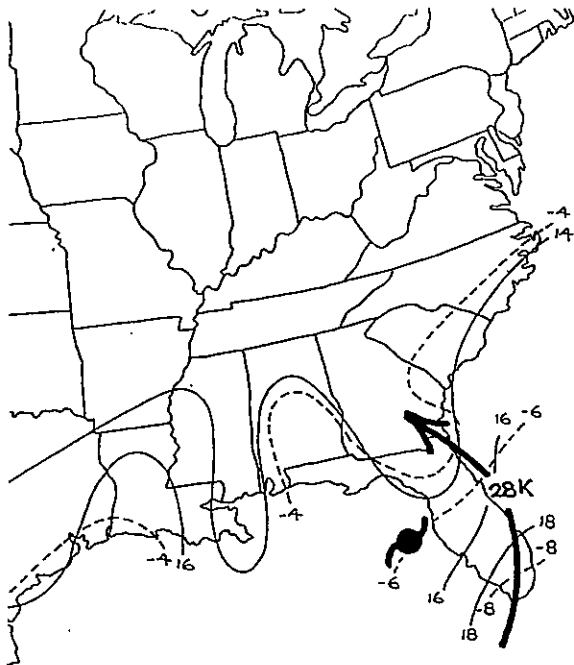
Surface 12Noon CST August 30, 1985



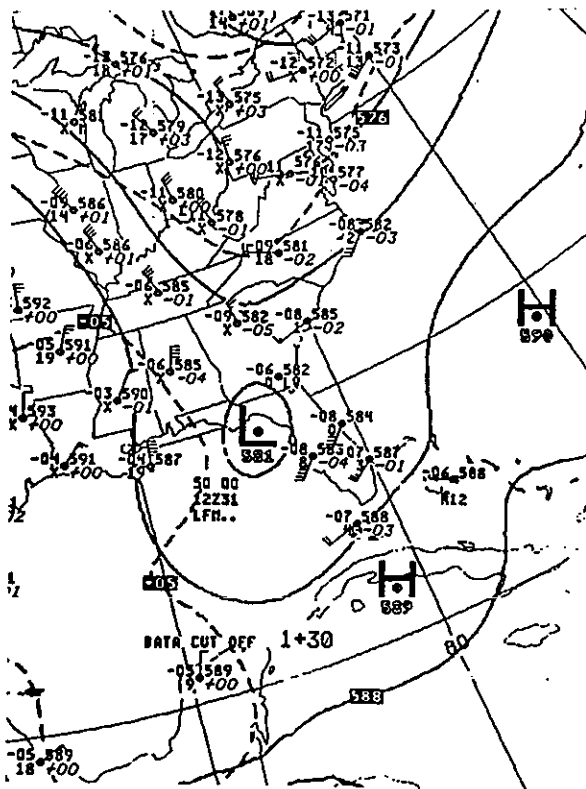
500 MB 6AM CST August 30, 1985



GOES 2:01 PM CST August 30, 1985



Composite 6AM CST August 31, 1985



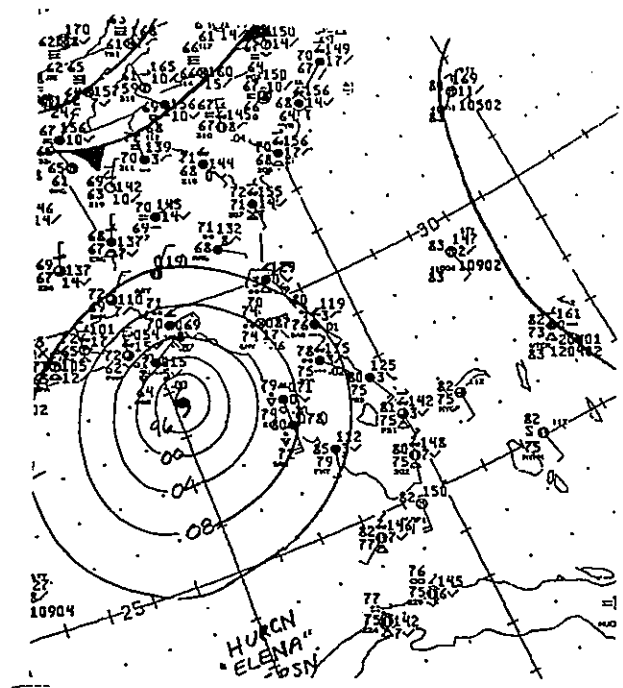
500 MB 6AM CST August 31, 1985

NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	0630	TORNADO-F2	FL	LEESBURG	5			6
	31AUG85							

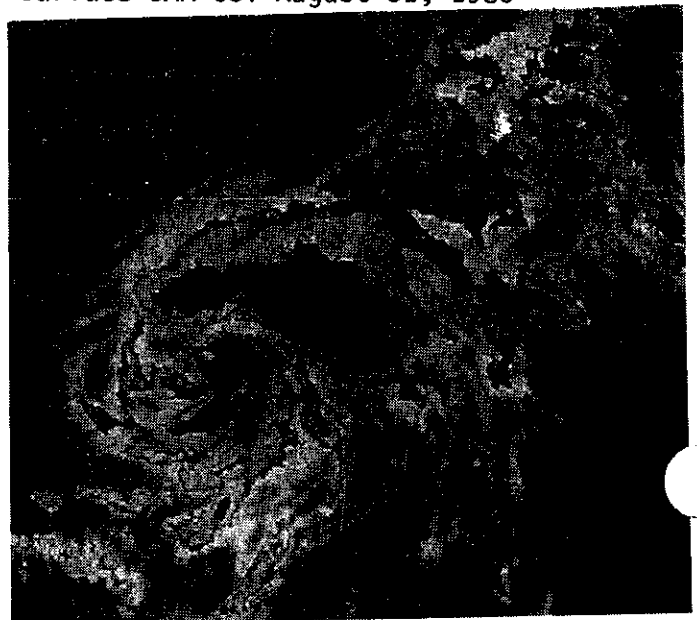


HURRICANE ELENA

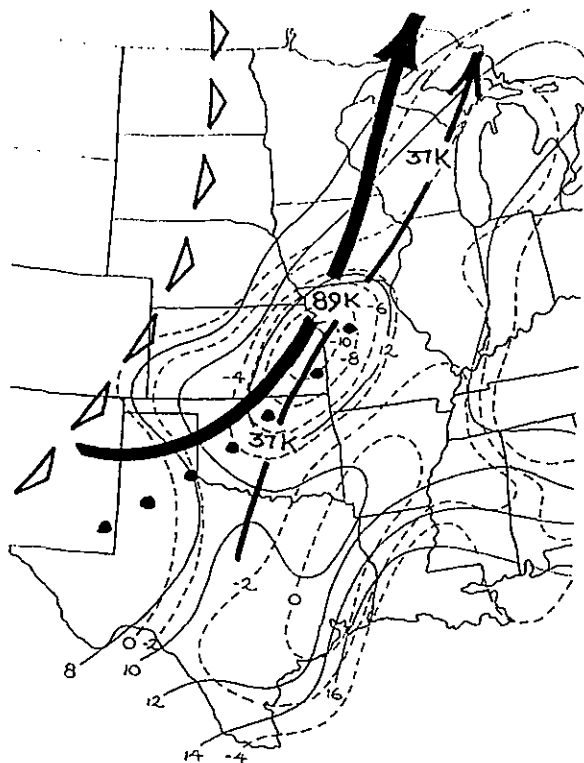
0100 CST 31AUG85 TO 0800 CST 02SEP85 9 TORNADOES



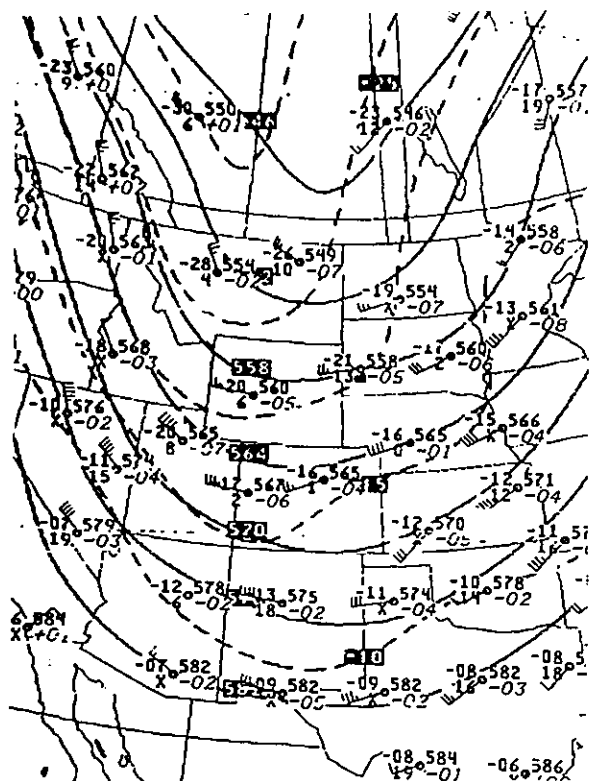
Surface 6AM CST August 31, 1985



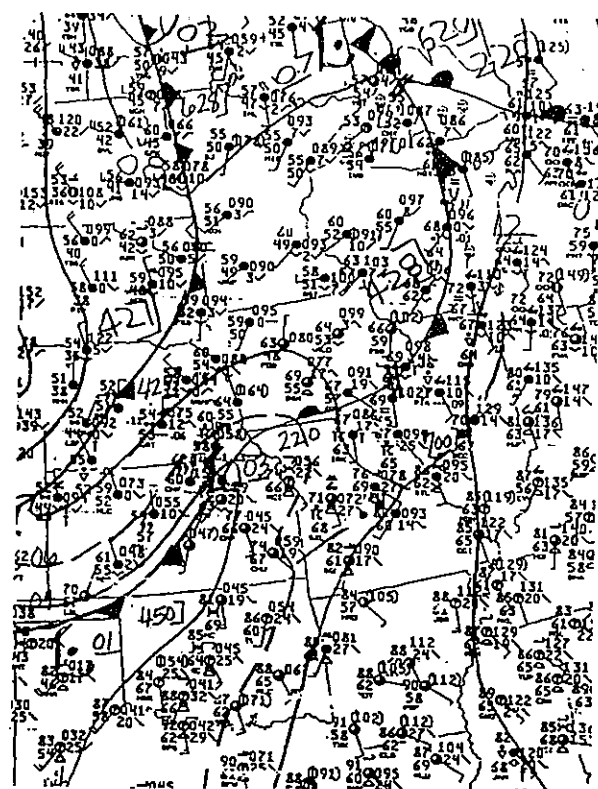
GOES 6:01AM CST August 31, 1985



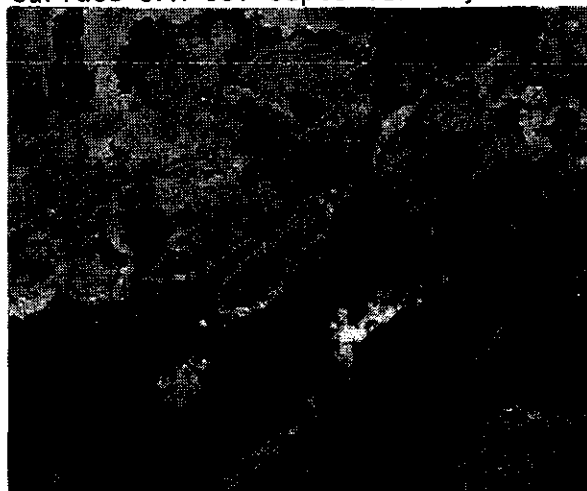
22SEP85 1330-2150 CST 53 REPORTS 4 TORNADOES



500 MB 6AM CST September 22, 1985

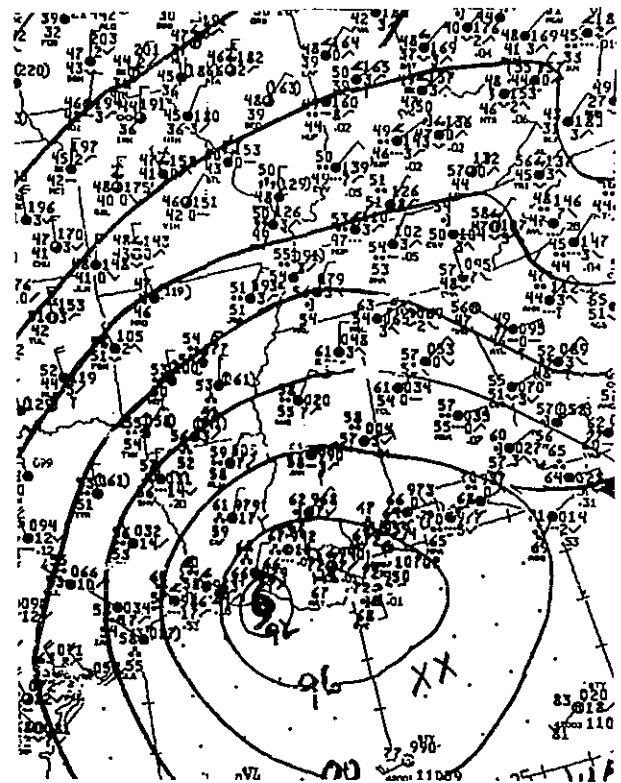
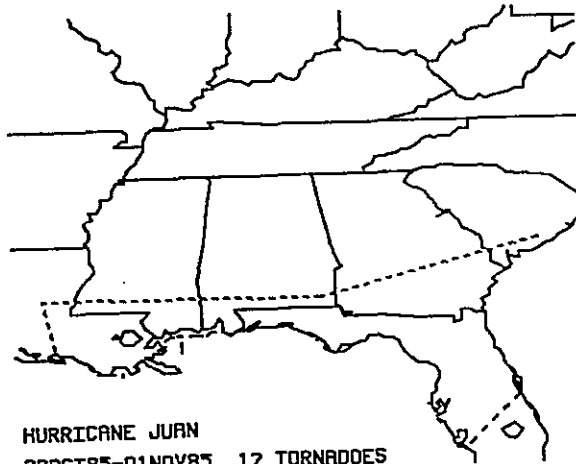


Surface 3PM CST September 22, 1985

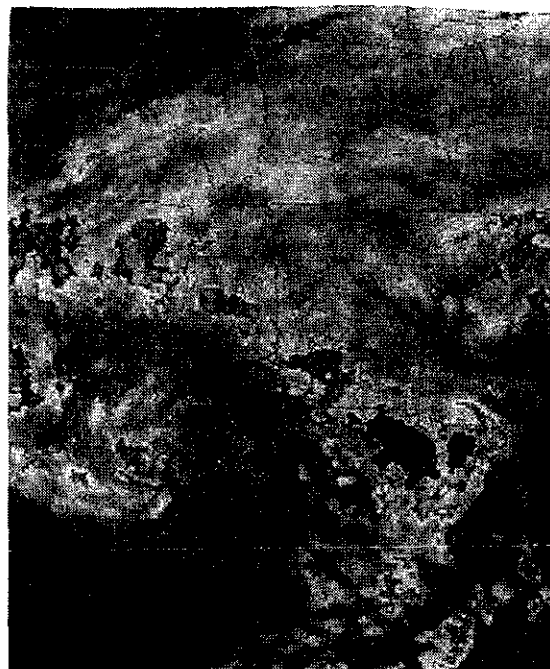


GOES 5PM CST September 22, 1985

No. 24 October 28-November 2, 1985



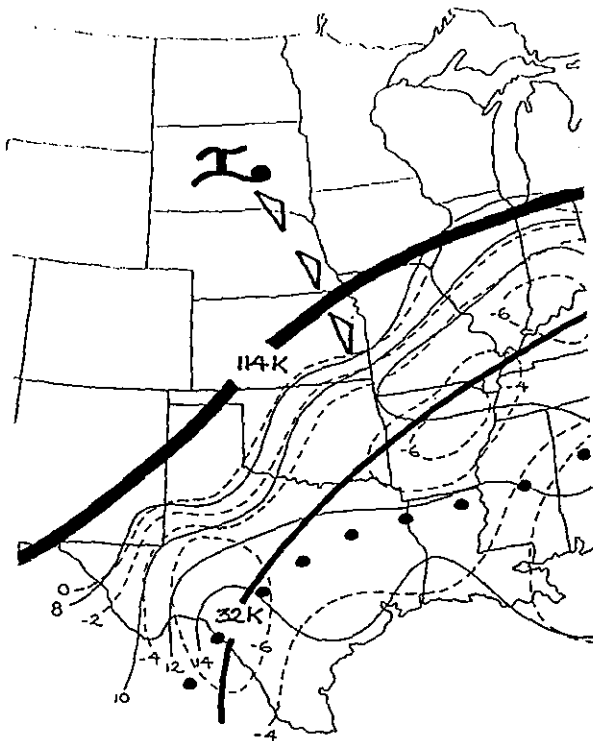
Surface 9AM CST October 30, 1985



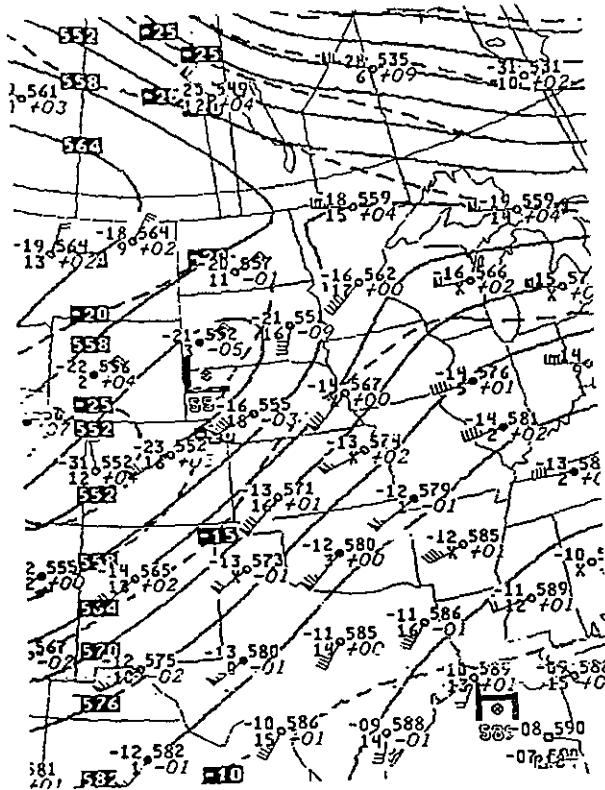
GOES 9AM CST October 30, 1985

No. 25 November 13, 1985

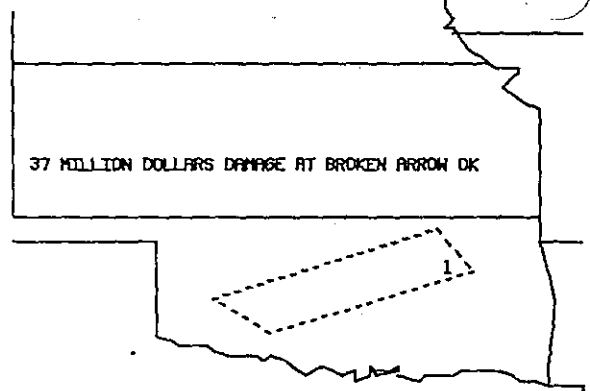
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1515	TORNADO-F1	OK	BROKEN ARROW				5



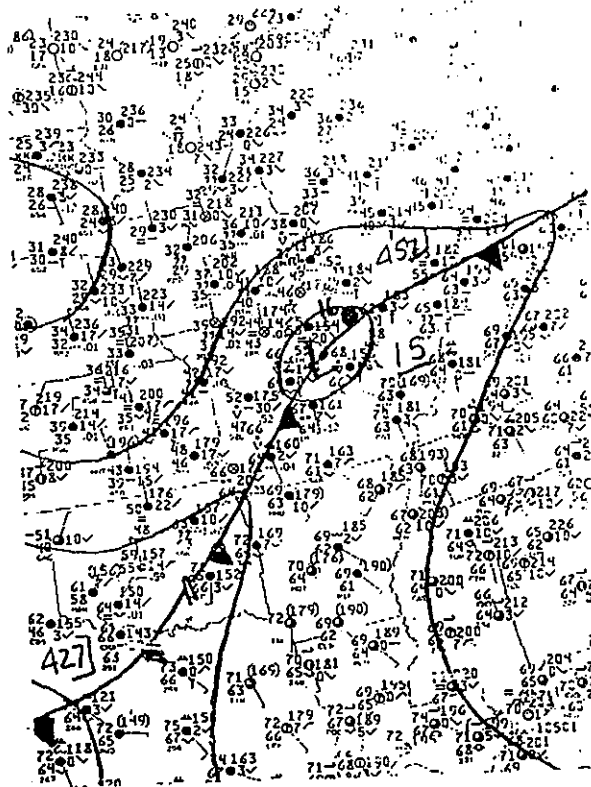
Composite 6PM CST November 13, 1985



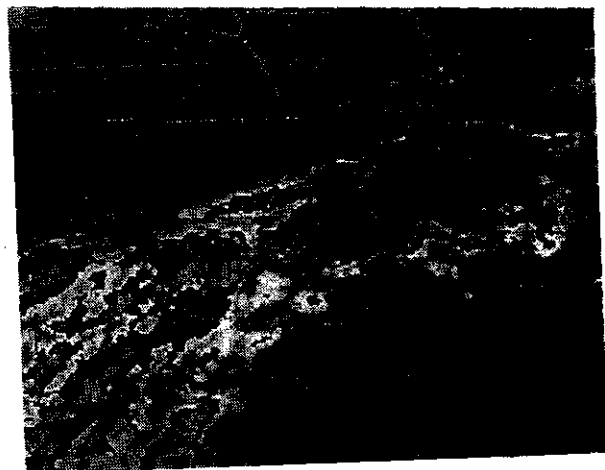
500 MB 6PM CST November 13, 1985



13NOV85 1100-2005 CST 16 REPORTS 1 TORNADO

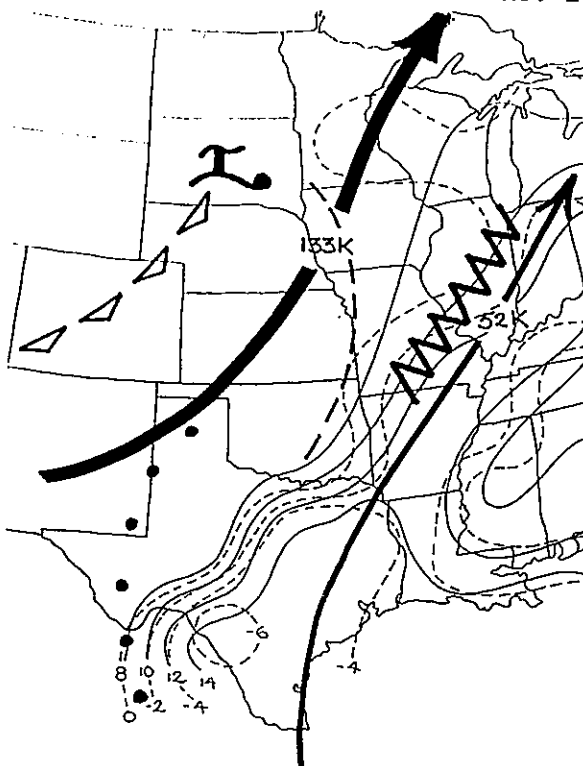


Surface 6PM CST November 13, 1985



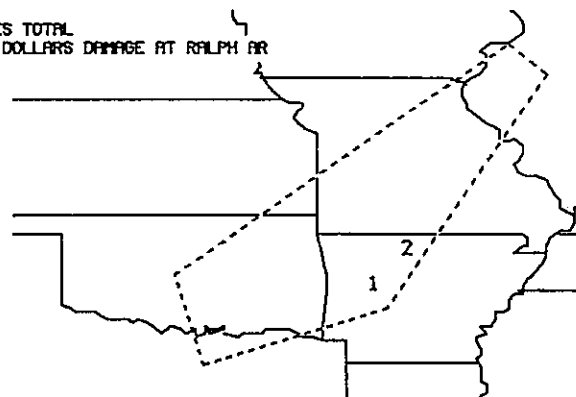
3 PM CST November 13, 1985

No. 26 November 18, 1985

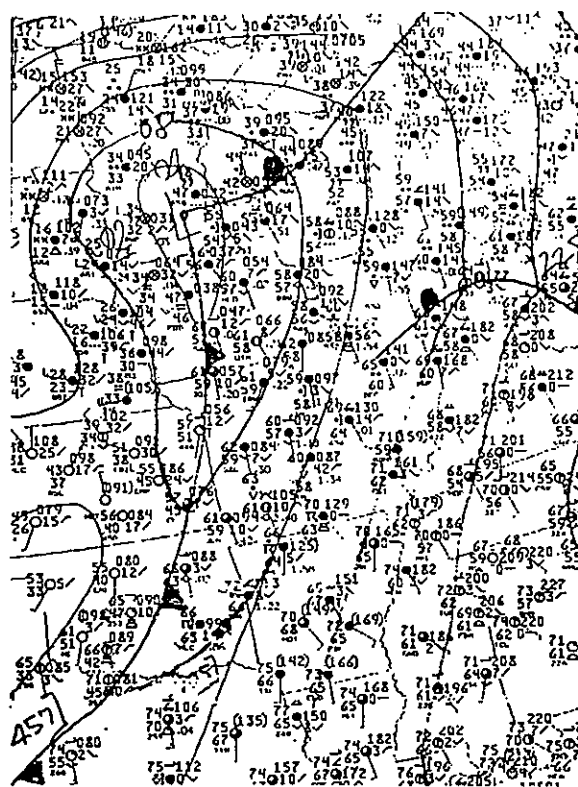


NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1933	TORNADO-F2	AR	CLARKSVILLE	18			6
2	2112	TORNADO-F3	AR	RAULPH	34	3	15	7

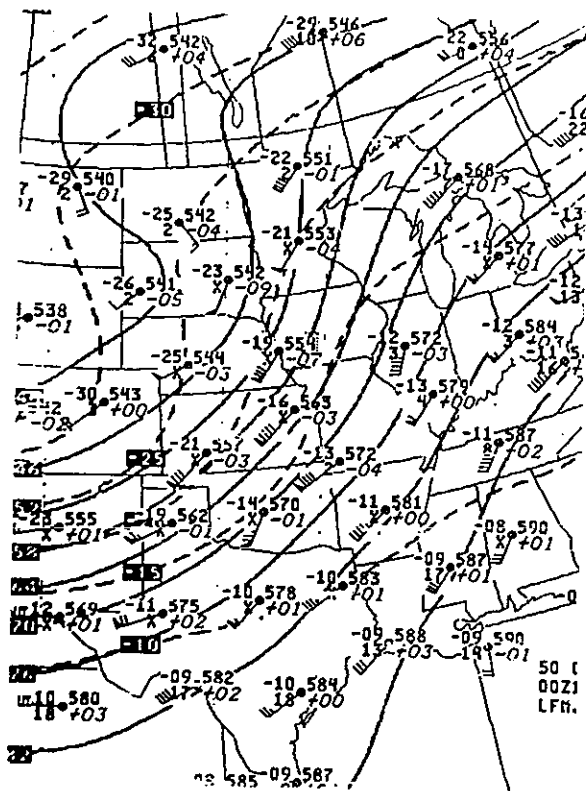
22 INJURIES TOTAL
7 MILLION DOLLARS DAMAGE AT RAULPH AR



18NOV85-19NOV85 1032-0545 CST 12 REPORTS 5 TORNADES



Composite 6PM CST November 18, 1985

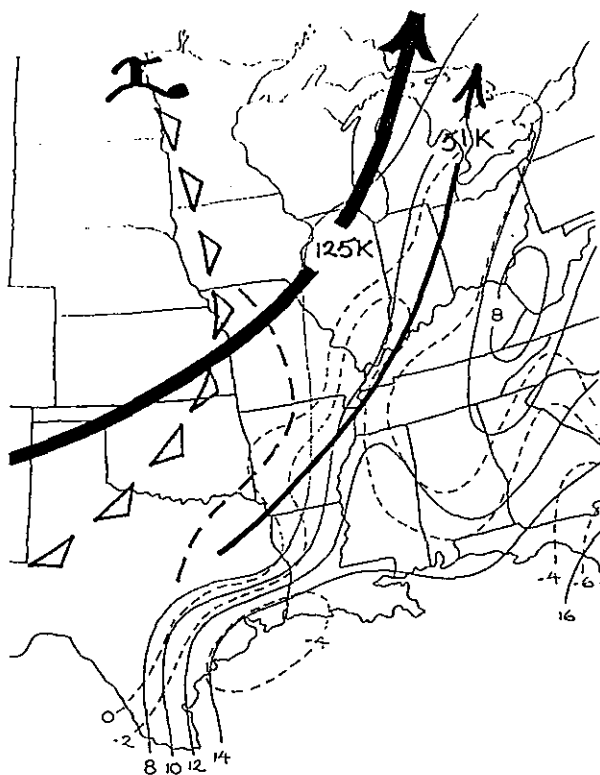


500 MB 6PM CST November 18, 1985

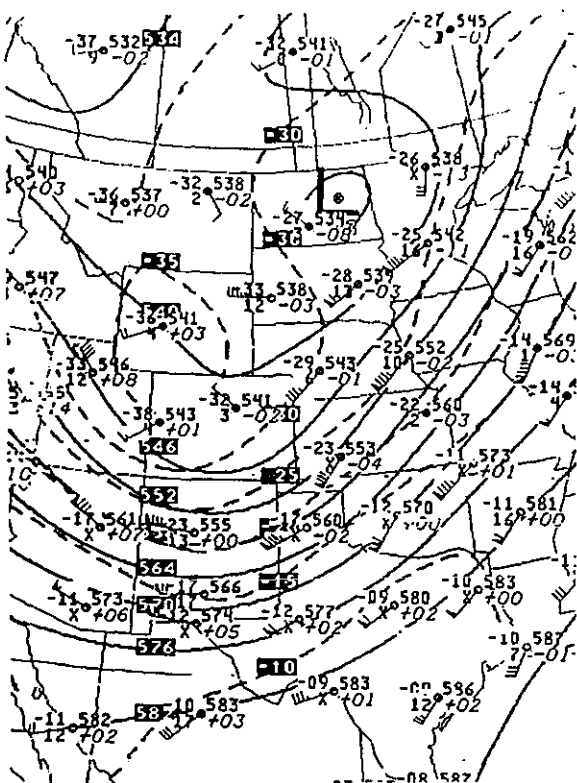
Surface 6PM CST November 18, 1985



31 GOES 8PM CST November 18, 1985



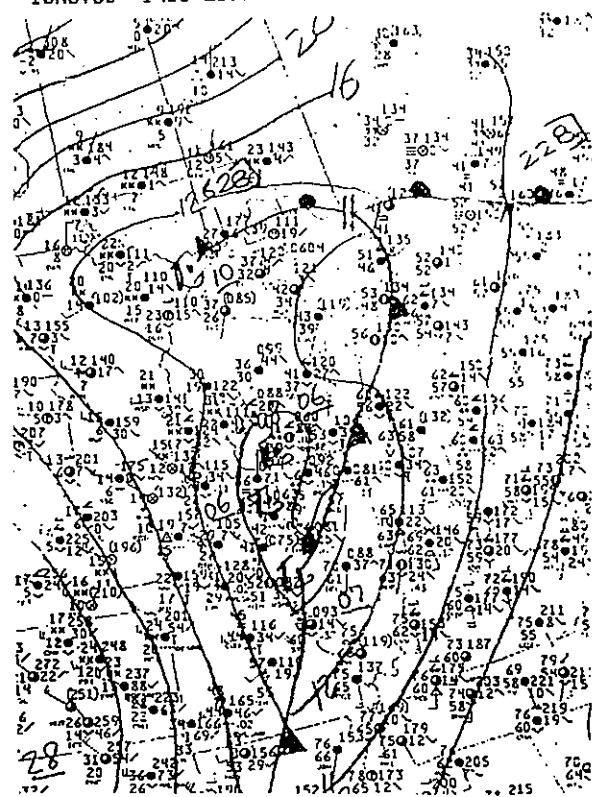
Composite 6PM CST November 19, 1985



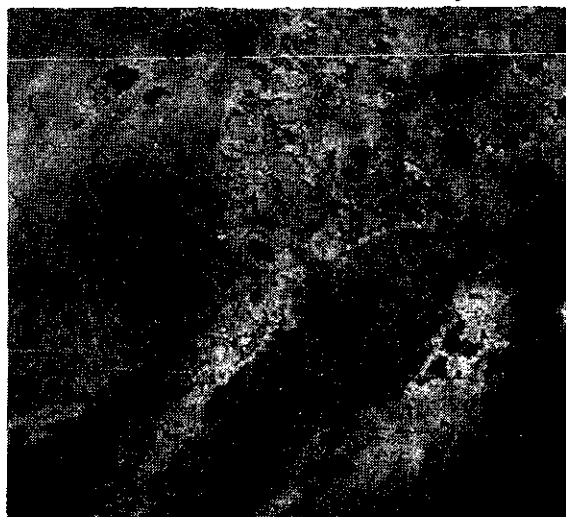
500 MB 6 AM CST November 19, 1985



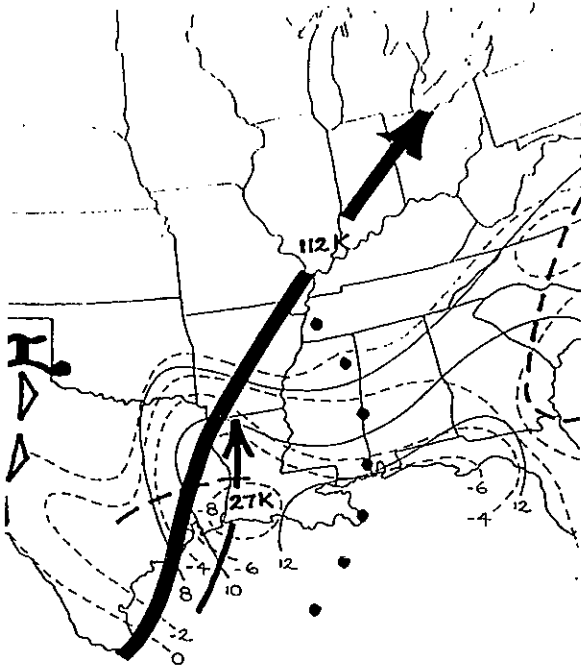
19NOV85 1400-2105 CST 20 REPORTS 2 TORNADOES



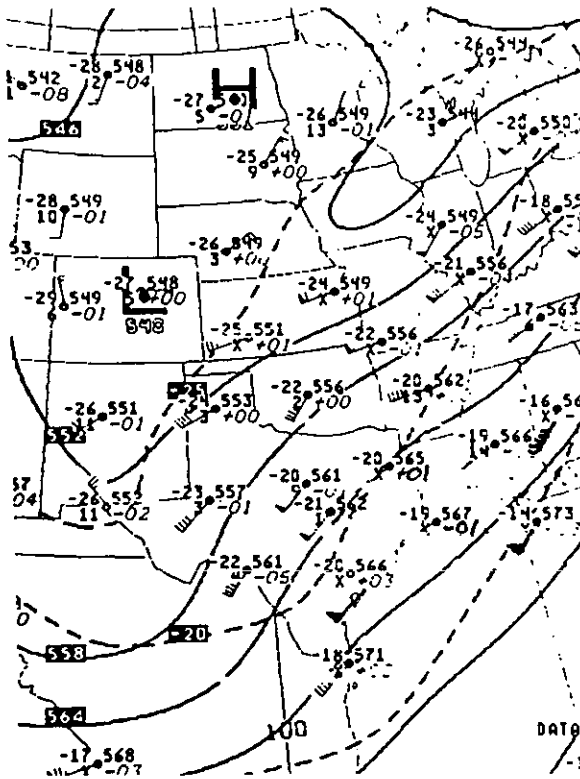
Surface 3PM CST November 19, 1985



GOES 3PM CST November 19, 1985

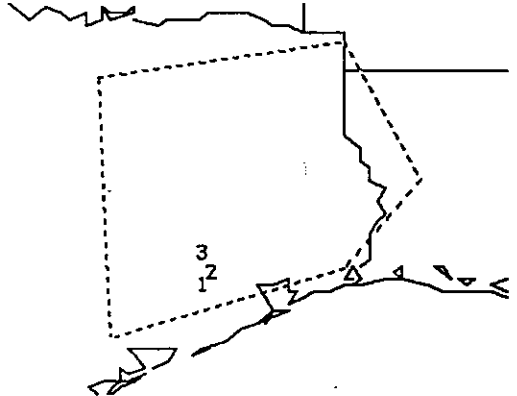


Composite 6PM CST February 5, 1986

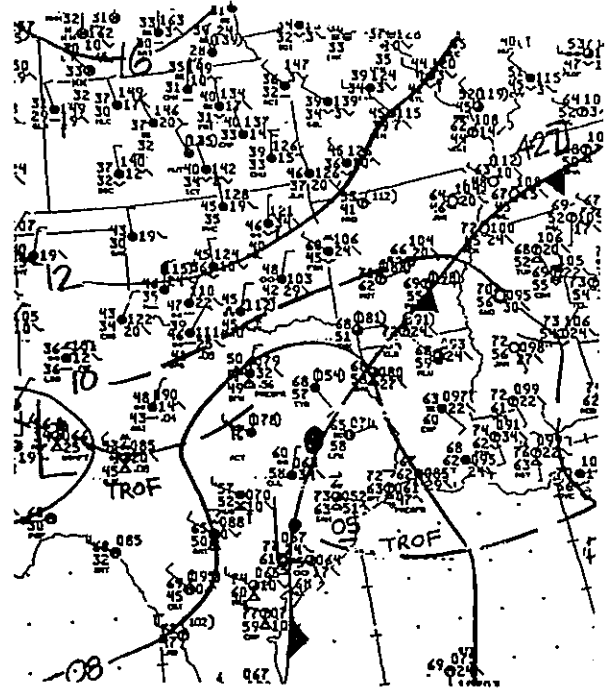


500 MB 6AM CST February 5, 1986

NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMG
1	1545	TORNADO-F2	TX	7 NW KATY	8		5	
2	1615	TORNADO-F2	TX	5 S TOMBALL	2		6	
3	1630	TORNADO-F3	TX	TOMBALL	5	2	7	



05FEB86 1430-2015 CST 31 REPORTS 12 TORNADOES

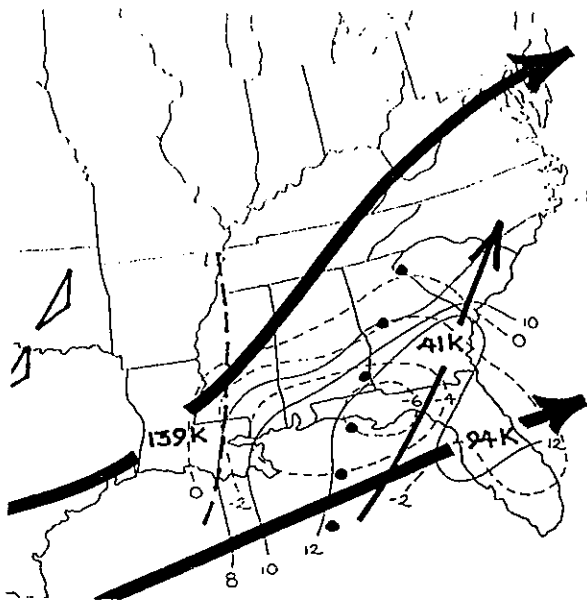


Surface 3PM CST February 5, 1986



GOES 4:01PM CST February 5, 1986

No. 29 February 10, 1986

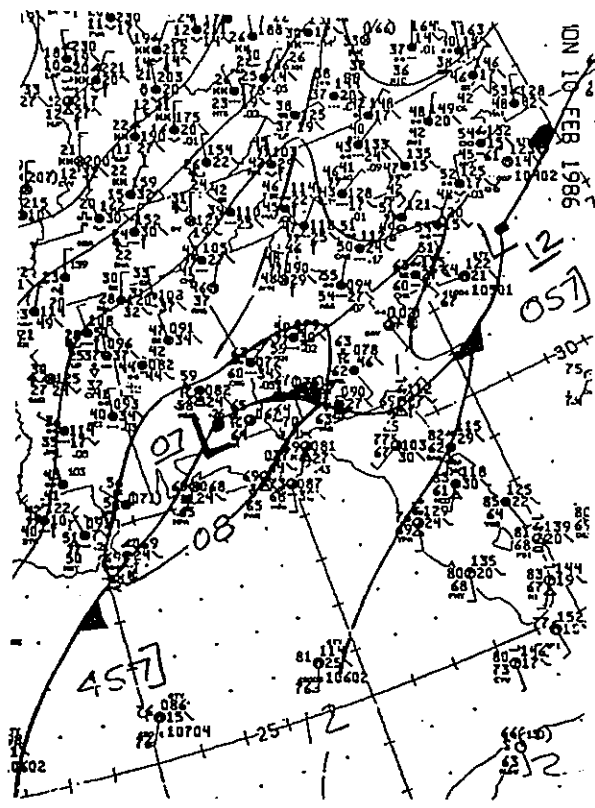


Composite 6PM CST February 10, 1986

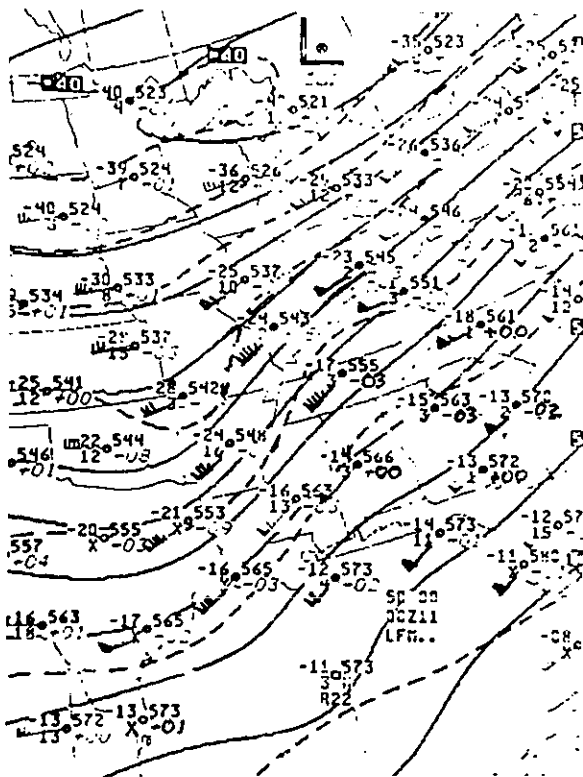
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	2205	TORNADO-F1	SA	WAYCROSS		4	2	5
2	2210	TORNADO-F1	SA	WAYCROSS		8	12	
3	2230	TORNADO-F1	SA	BLACKSHEAR		5	7	



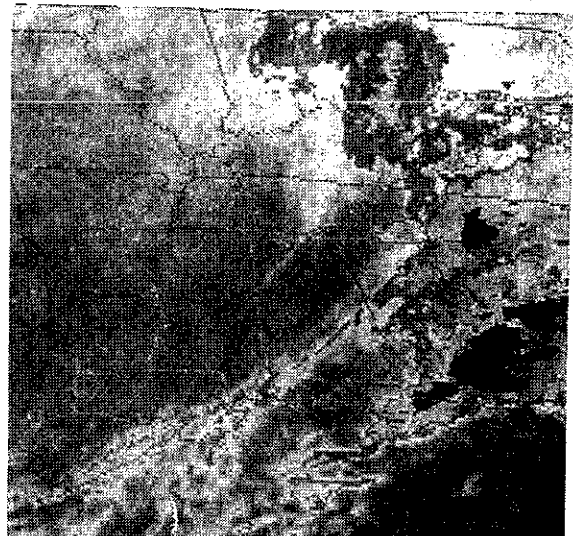
10FEB86 1245-2230 CST 7 REPORTS 3 TORNADOES



Surface 3PM CST February 10, 1986

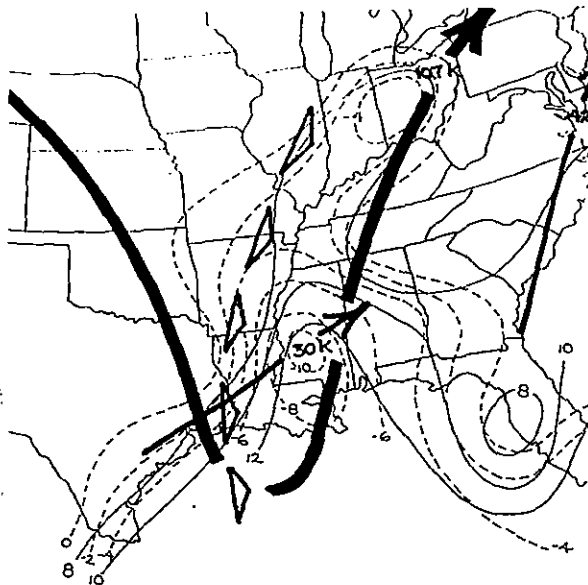


500 MB 6PM CST February 10, 1986



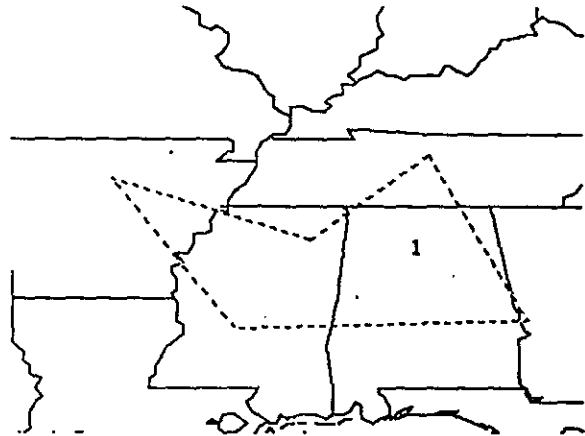
GOES 9:30 PM CDT February 10, 1986

No. 30 February 17, 1986

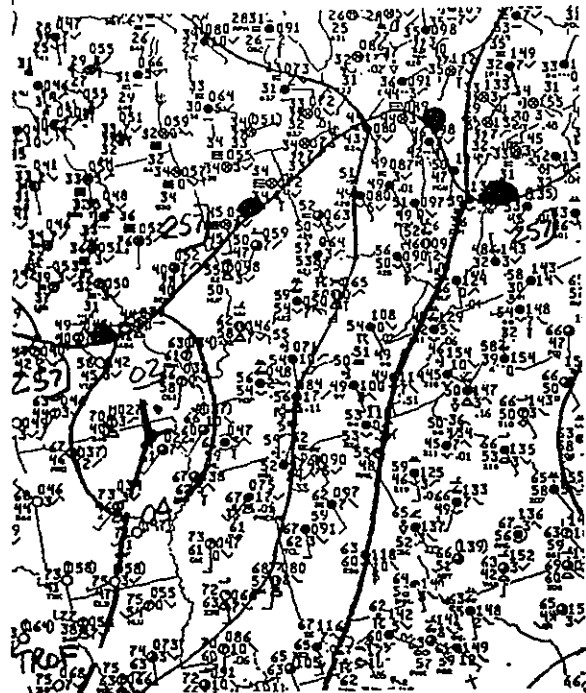


Composite 6PM CST February 17, 1986

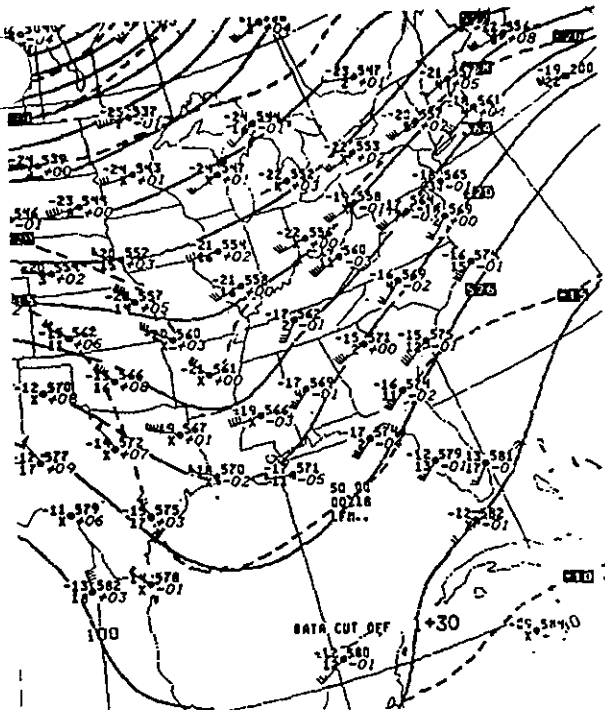
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DWG
1	2015	WIND GUST	AL	LONGVIDEN			4	3



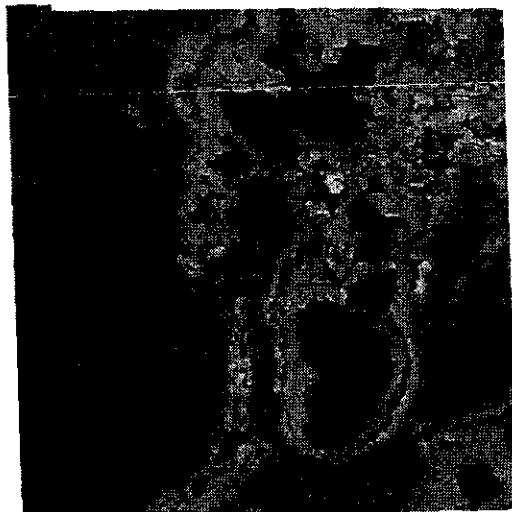
17FEB86 1430-2225 CST 32 REPORTS 3 TORNADOES



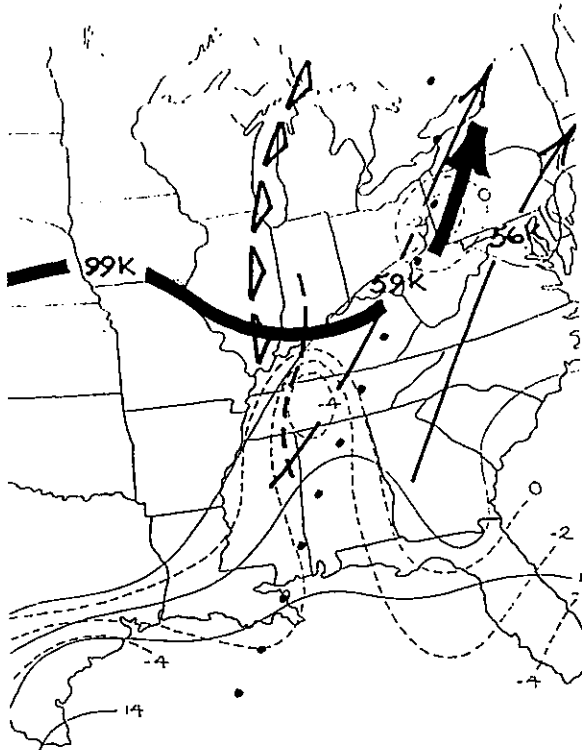
Surface 6 PM CST February 17, 1986



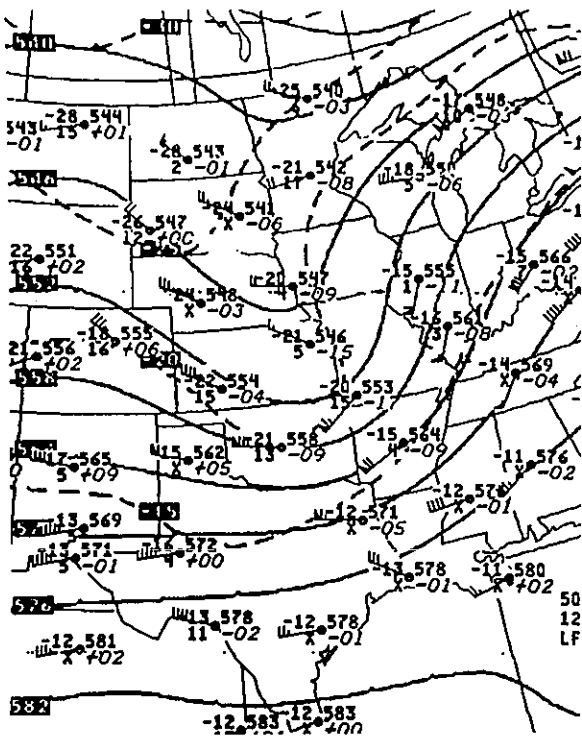
500 MB 6PM CST February 17, 1986



GOES 8PM CST February 17, 1986

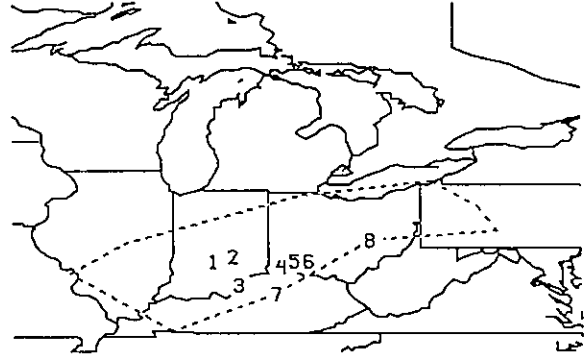


Composite 6PM CST March 10, 1986

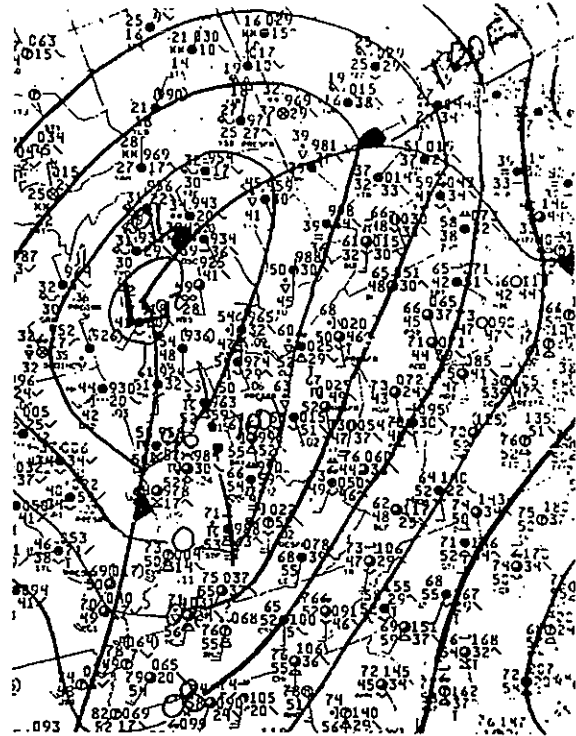


500 MB 6AM CST March 10, 1986

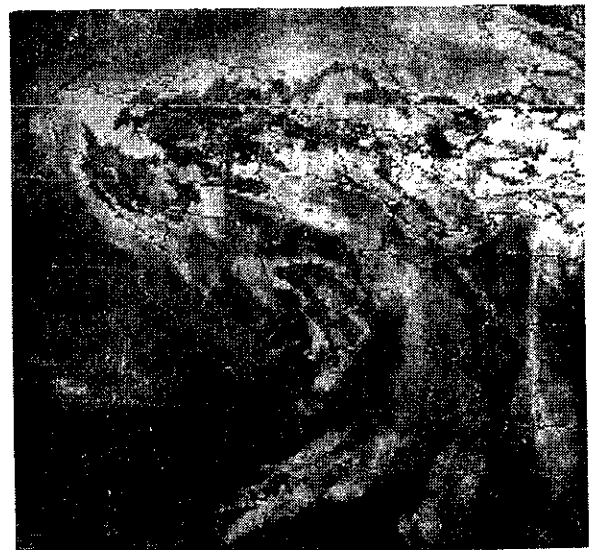
- 1 1328-1415 CST TORNADO-F3 MARTINSVILLE IN 22 INJ 25 MI
- 2 1410 CST TORNADO-F3 BOGGSSTOWN IN 1 KIL 1 INJ 28 MI
- 3 1410 CST TORNADO-F2 AUSTIN IN 25 INJ 12 MI
- 4 1530 CST GUST 100 MPH COVINGTON KY 25 INJ 110 MIL DMG
- 5 1540 CST GUST NEWPORT KY 40 INJ 18 MIL DMG
- 6 1808 CST TORNADO-F2 WILKINGTON OH 10 INJ
- 7 1850-1705 CST TORNADO-F2 LEXINGTON KY 20 INJ 15 MIL DMG
- 8 1845 CST TORNADO-F2 2 SW NORWICH OH 1 KIL 3 INJ



10MAR86 1158-2130 CST 82 REPORTS 14 TORNADES

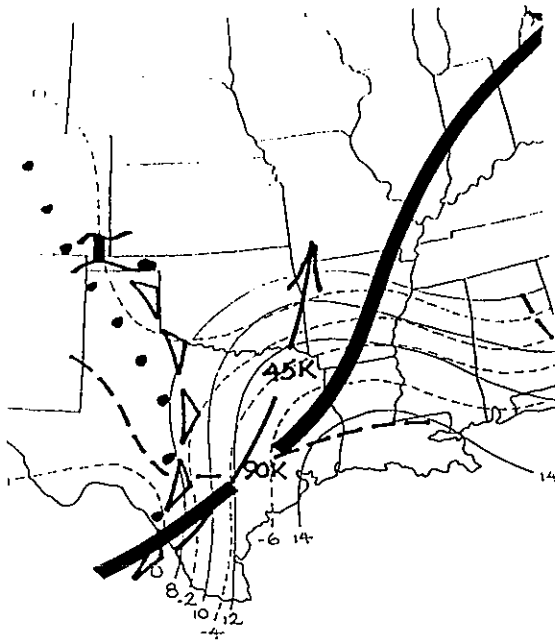


Surface 3 PM CST March 10, 1986



GOES 2PM CST March 10, 1986

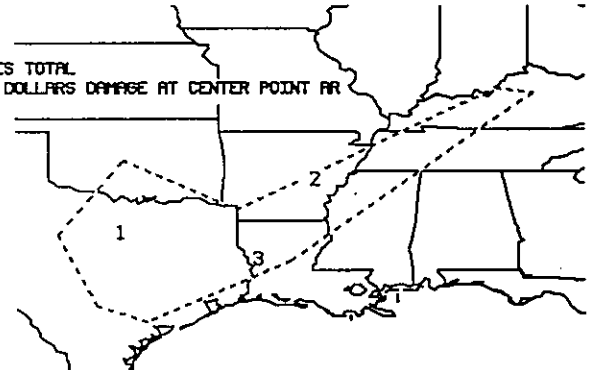
No. 32 March 11, 1986



NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMG
1	1708	TORNADO-F2	TX	WEATHERFORD	9			
2	2040	BUST	AR	CENTER POINT			1	6
3	0050	BUST 85 MPH	LA	FISHER			1	5

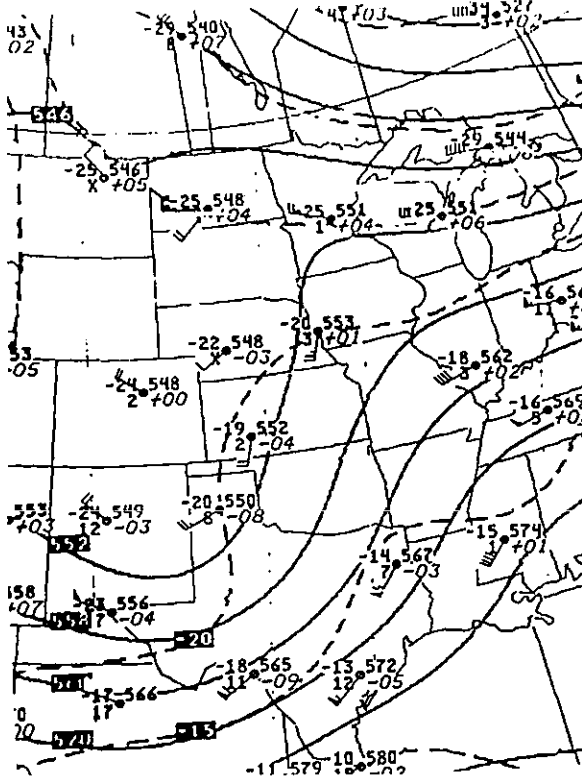
24 INJURIES TOTAL

2 MILLION DOLLARS DAMAGE AT CENTER POINT AR

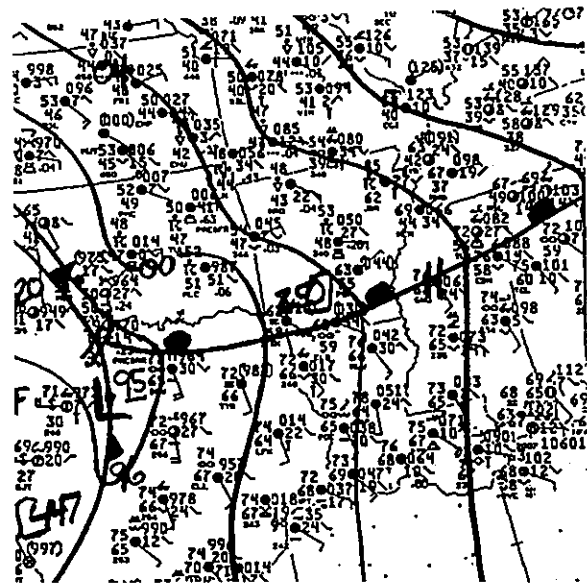


11MAR86-12MAR86 1233-0600 CST 129 REPORTS 11 TORNADOES

Composite 6PM CST March 11, 1986



500 MB 6PM CST March 11, 1986

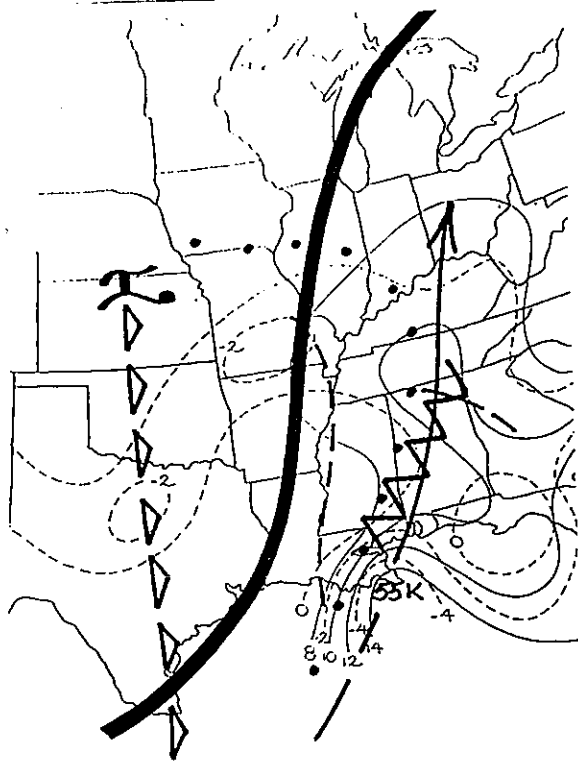


Surface 6PM CST March 11, 1986



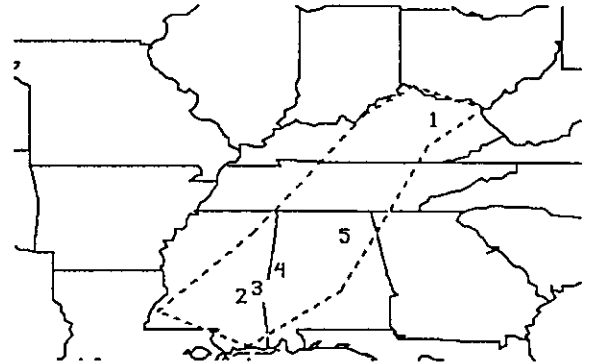
0050 6PM CST March 11, 1986

No. 33 March 12, 1986

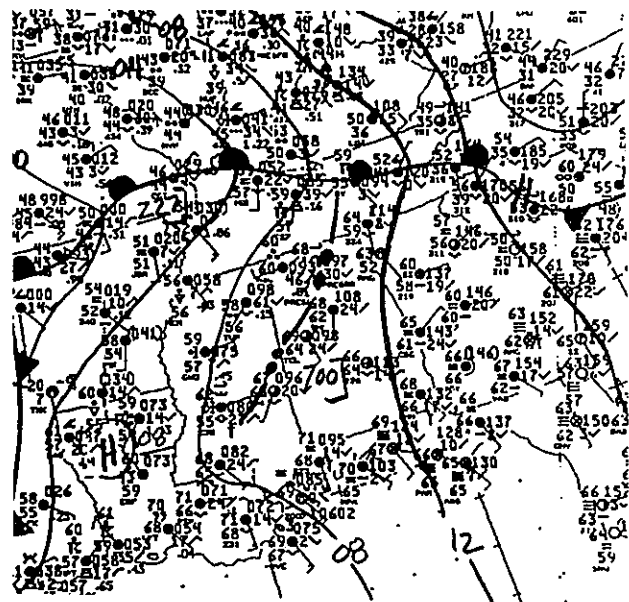


Composite 6PM CST March 12, 1986

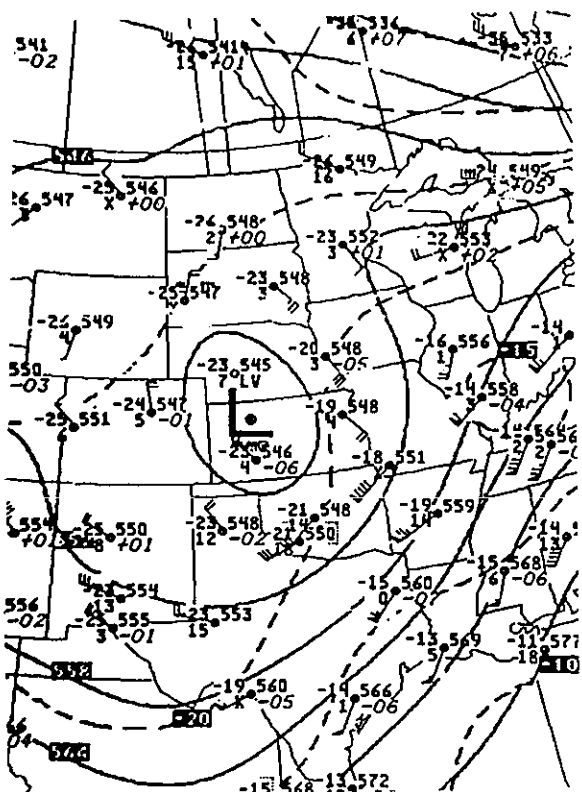
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	0615	GUST	KY	CHARLISLE			8	5
2	1207	TORNADO-F3	MS	TAYLORVILLE	31		2	
3	1306	TORNADO-F4	MS	MERIDIAN	22		6	
4	1415	TORNADO-F3	AL	ALICEVILLE	16	2		
5	2020	TORNADO-F2	AL	ARAB	7		5	



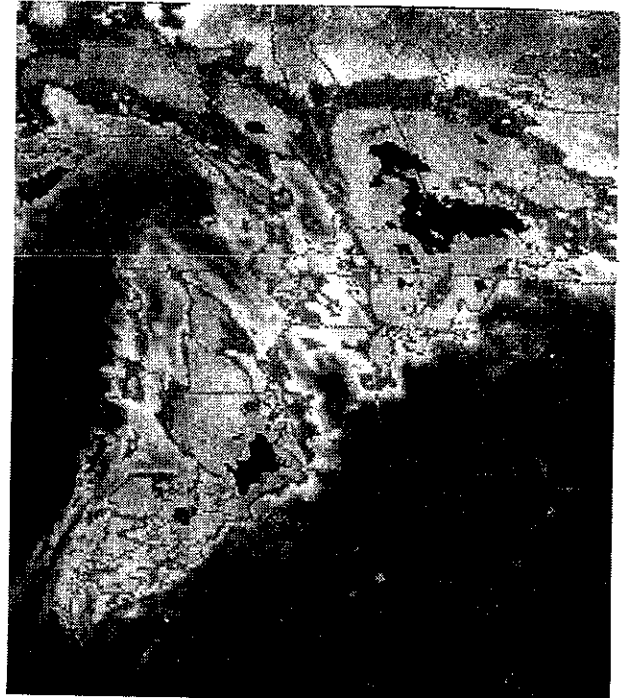
12MAR86 0600-2340 CST 55 REPORTS 13 TORNAOOES



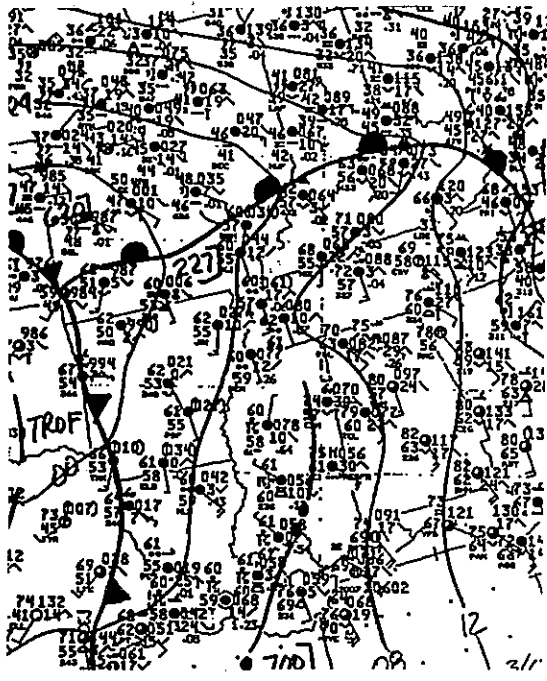
Surface 6AM CST March 12, 1986



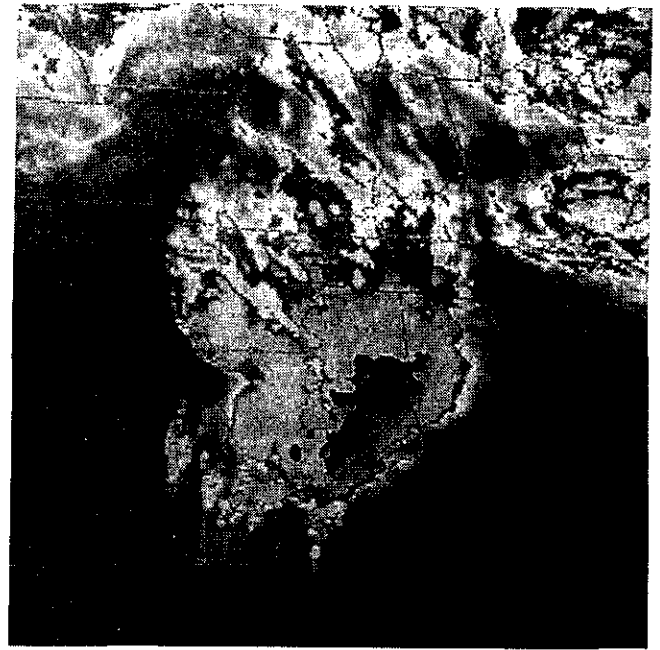
500 MB 6AM CST March 12, 1986



GOES 6AM CST March 12, 1986



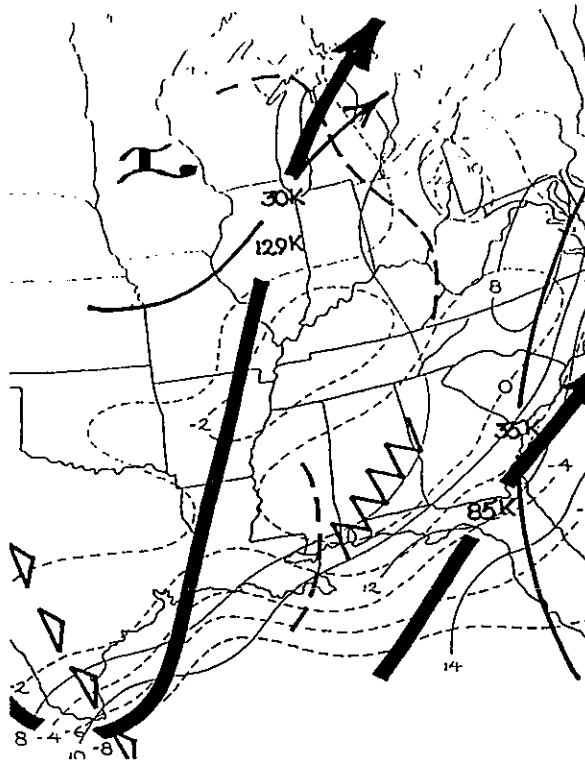
Surface 12Noon CST March 12, 1986



GOES 12Noon March 12, 1986

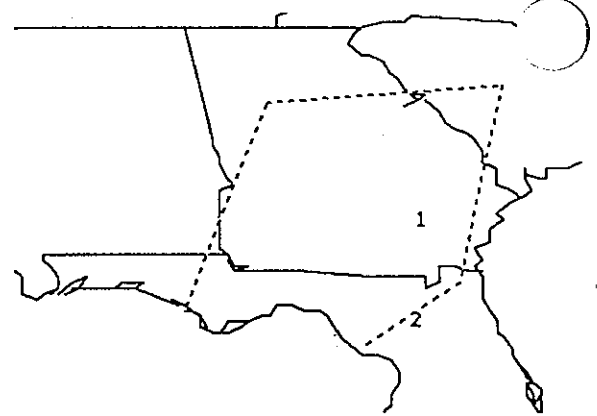


GOES 8PM CST March 12, 1986

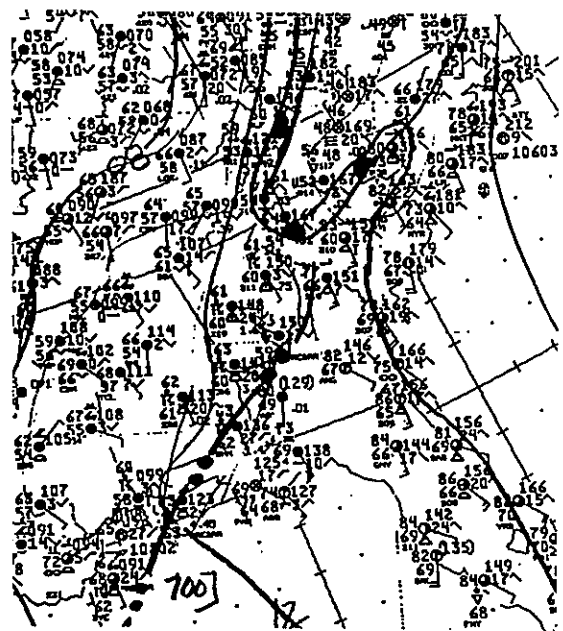


Composite 6PM CST March 13, 1986

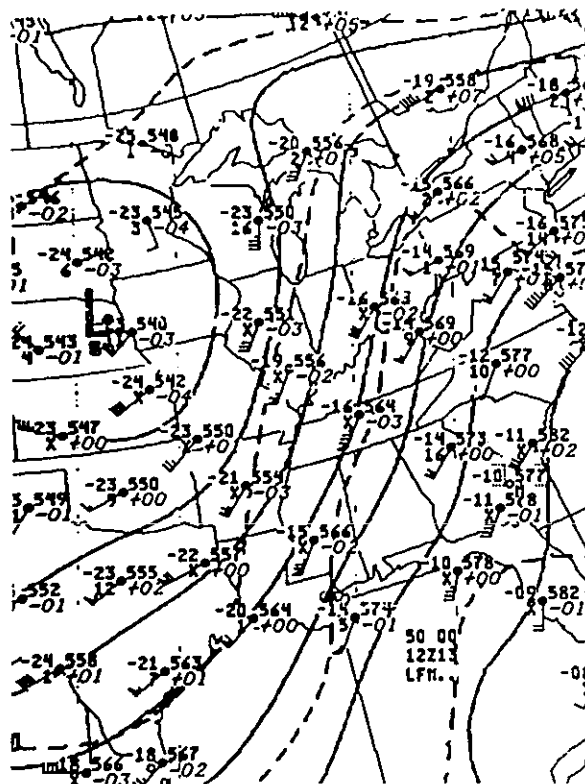
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1345	TORNADO-F1	GA	S S BAXLEY				
2	0517	TORNADO-F2	FL	GRADNESVILLE		2	4	5



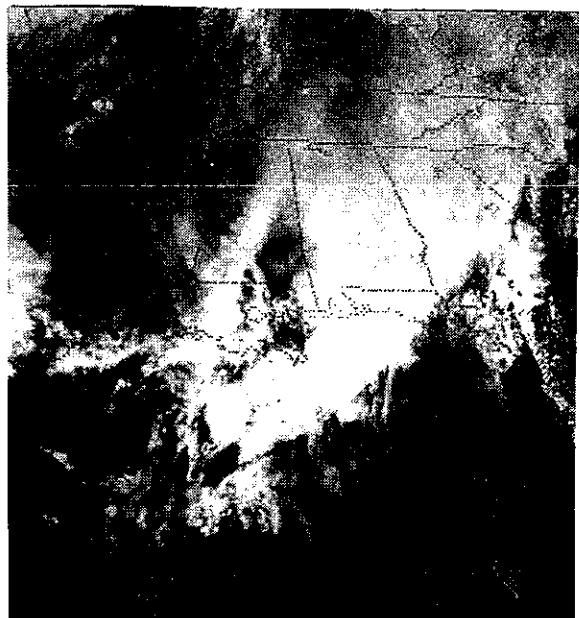
13MAR86-14MAR86 0600-0545 CST 27 REPORTS 3 TORNADOES



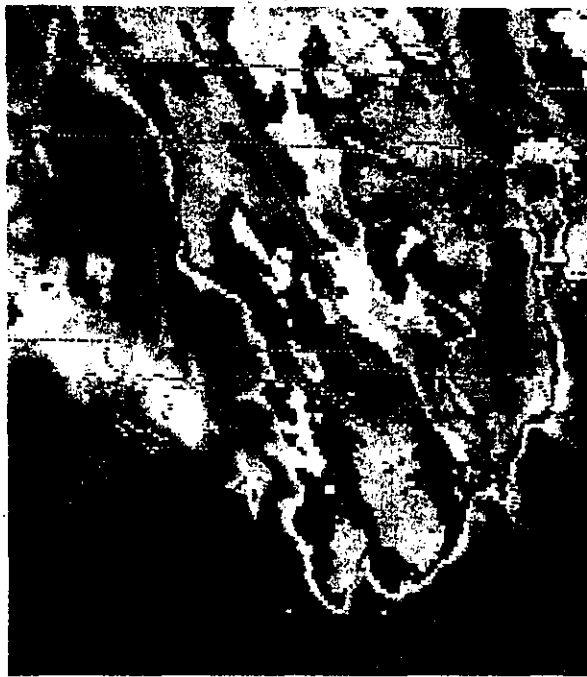
Surface 12Noon CST March 13, 1986



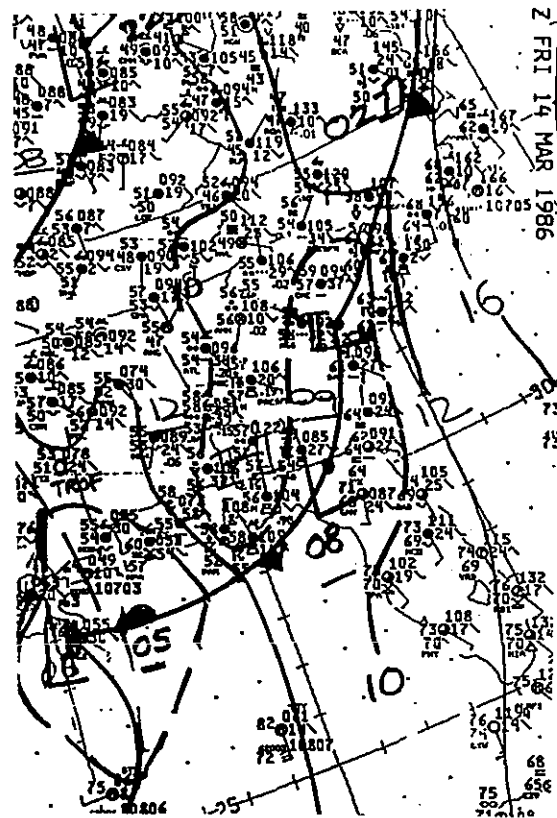
500 MB 6AM CST March 13, 1986



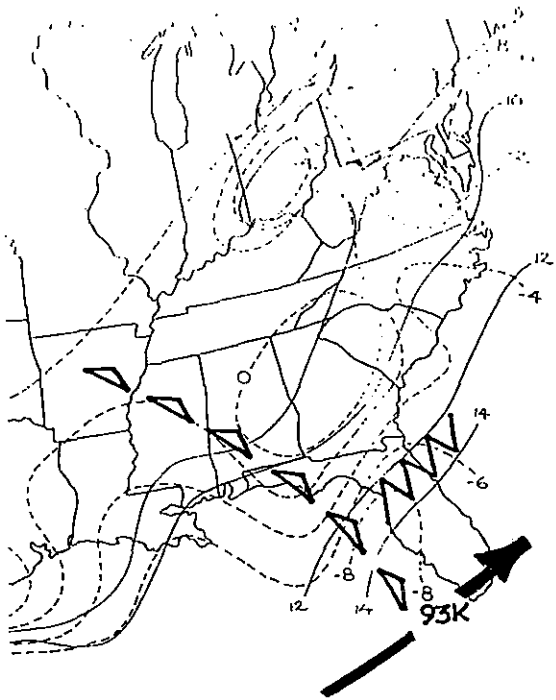
GOES 1:30PM CST March 13, 1986



GOES 5 AM CST March 14, 1986



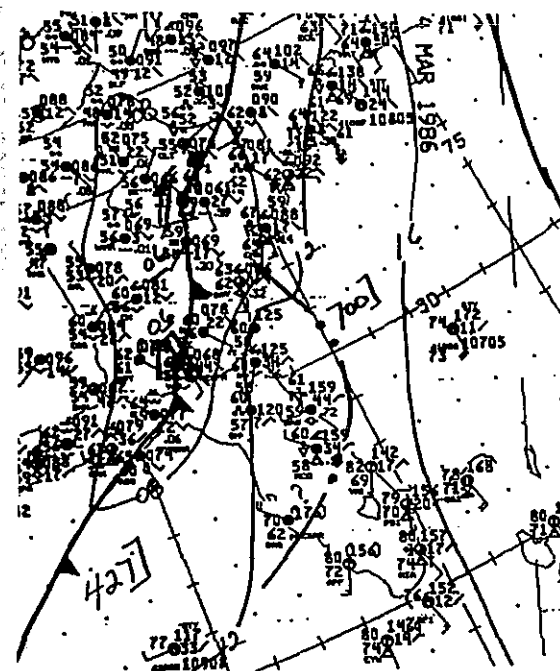
Surface 3AM CST March 14, 1986



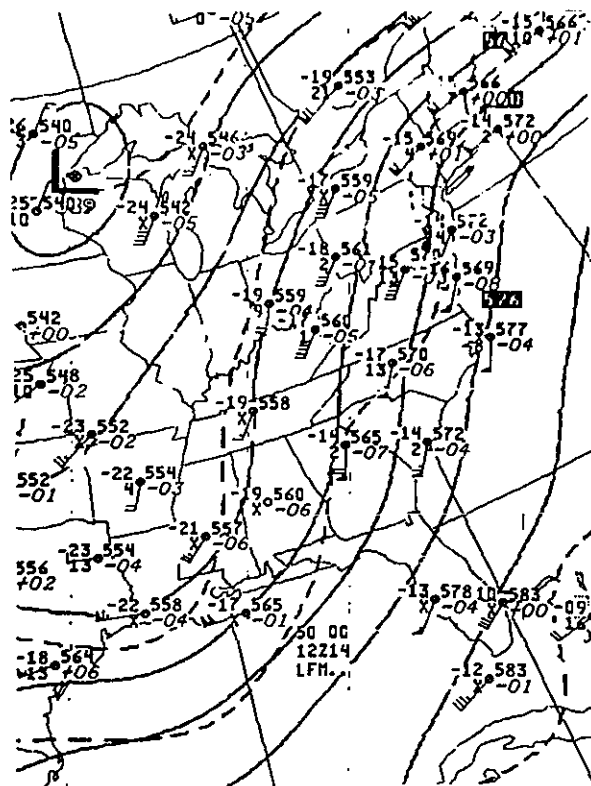
Composite 6AM CST March 14, 1986



14MAR86 0600-1345 CST 18 REPORTS 8 TORNADOES



Surface 9AM CST March 14, 1986



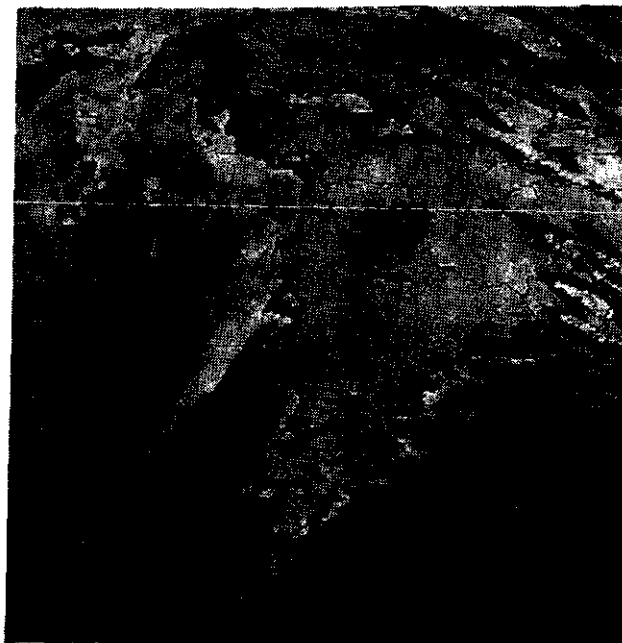
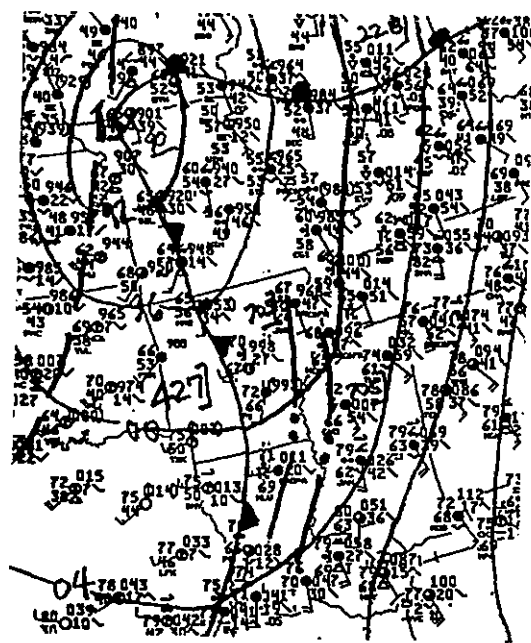
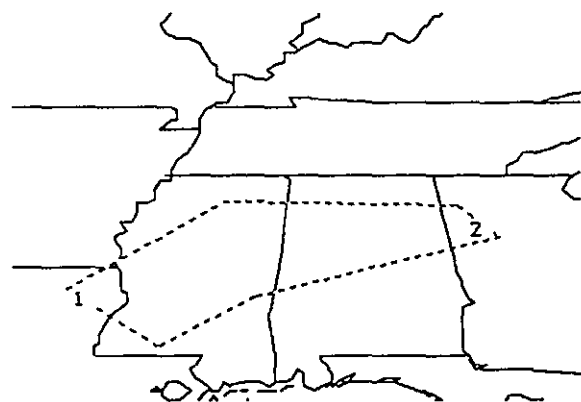
500 MB 6AM CST March 14, 1986



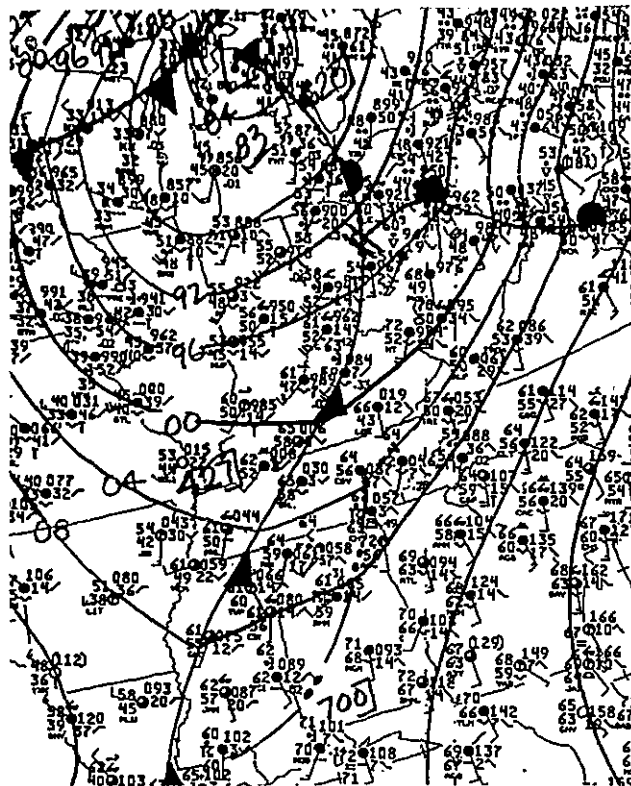
GOES 8AM CST March 14, 1986



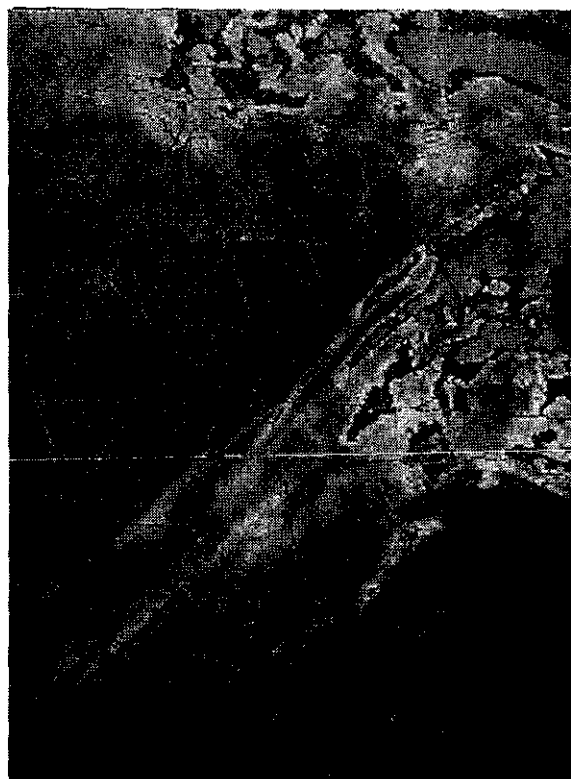
43



GOES 3PM CST March 18, 1986



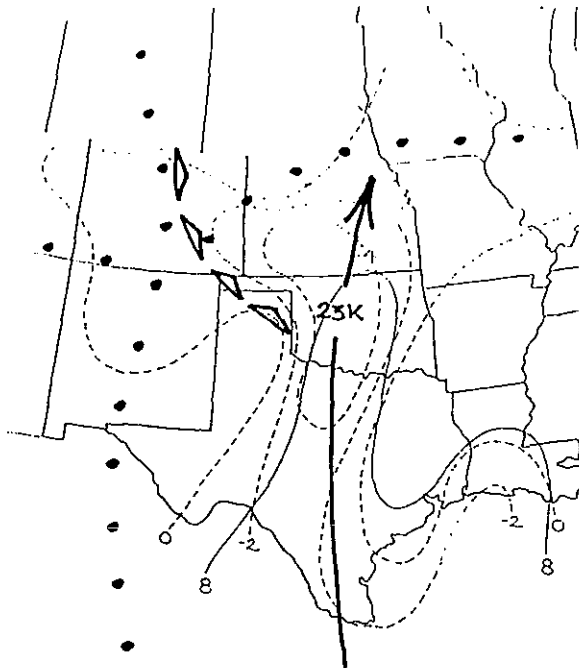
Surface 3AM CST March 19, 1986



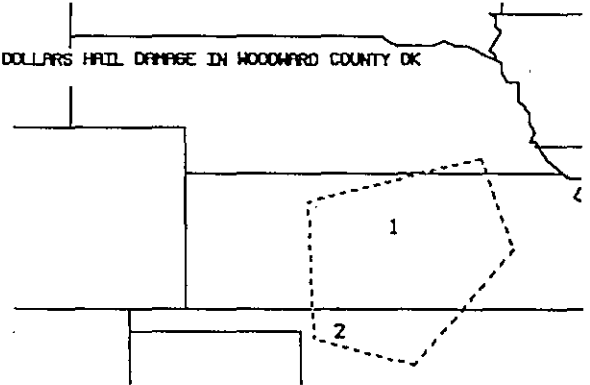
GOES 5AM CST March 19, 1986

No. 37 March 31, 1986

NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DWG
1	1755	GUST 81 MPH	KS	SYLVAN GROVE				3
2	2045	2.00 INCH HAIL	OK	WOODWARD COUNTY				6

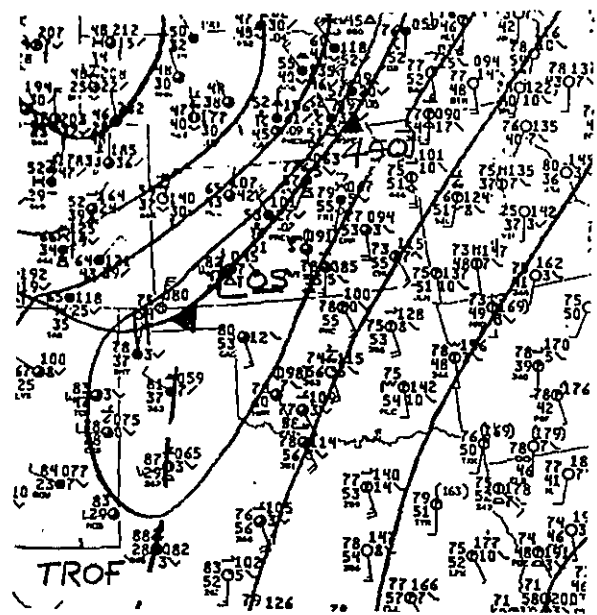
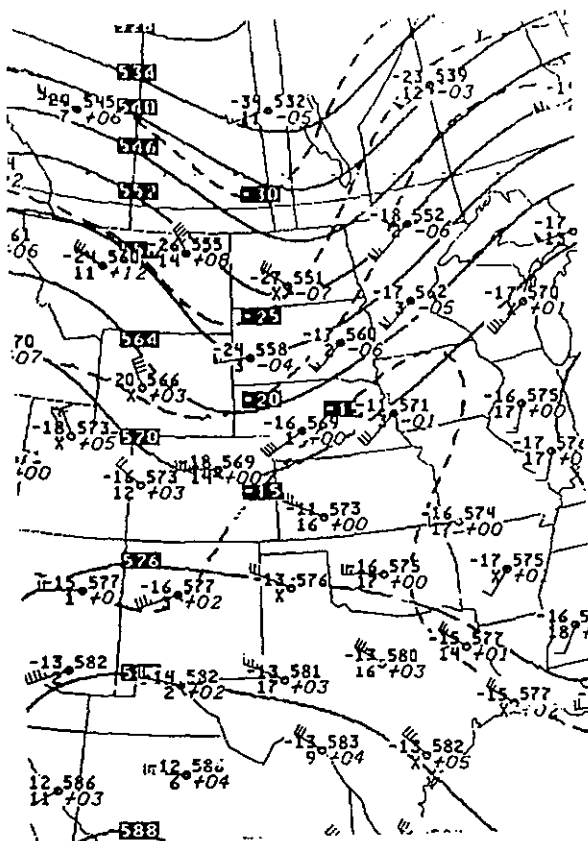


3 MILLION DOLLARS HAIL DAMAGE IN WOODWARD COUNTY OK

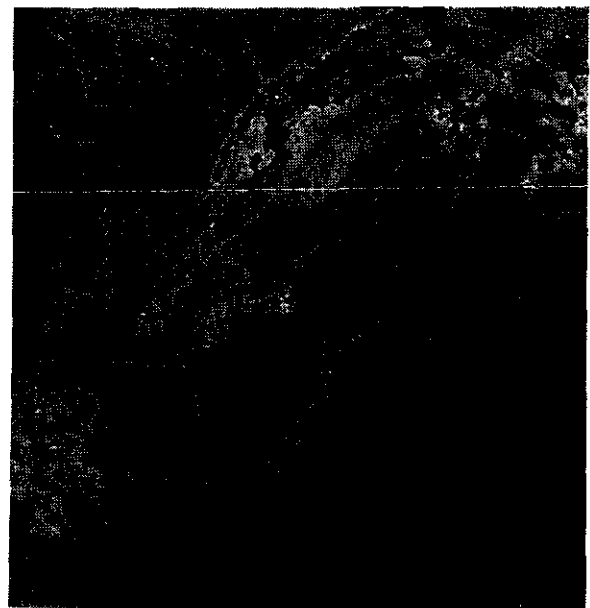


31MAR86 1605-2230 CST 38 REPORTS

Composite 6PM CST March 31, 1986



Surface 6PM CST March 31, 1986

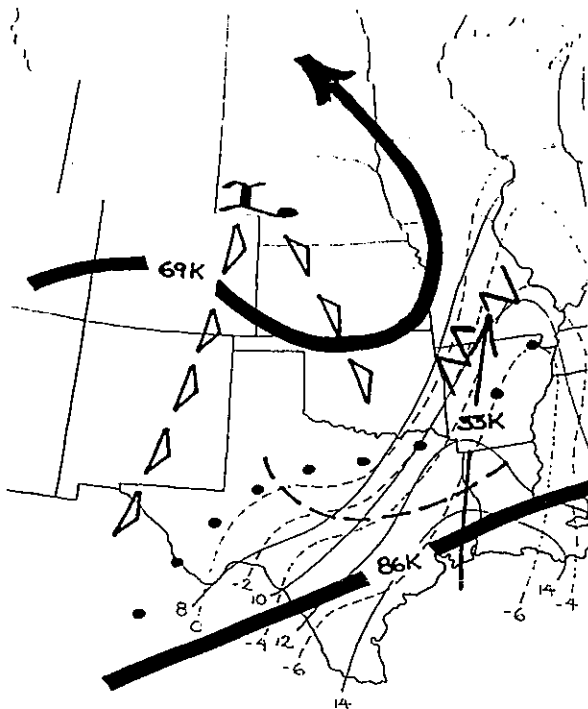


500MB 6PM CST March 31, 1986

GOES 6PM CST March 31, 1986

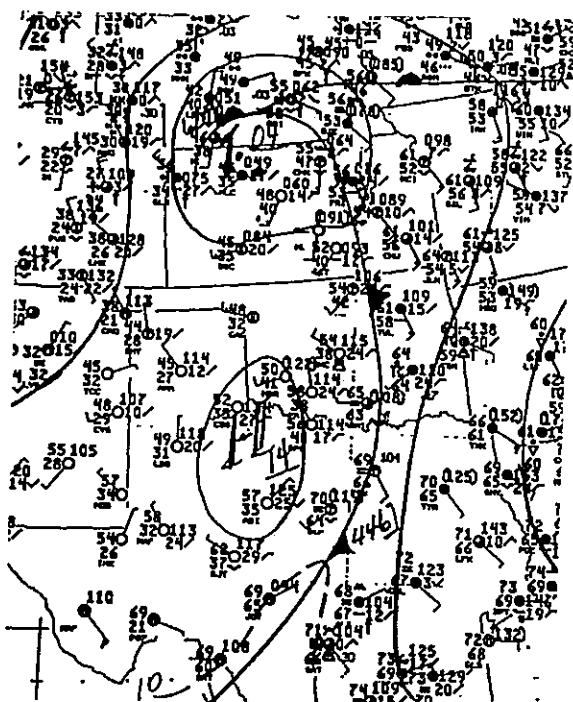
No. 38 April 4, 1986

NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMG
1	2030	TORNADO-F1	TX	3 N CANTON		2	5	

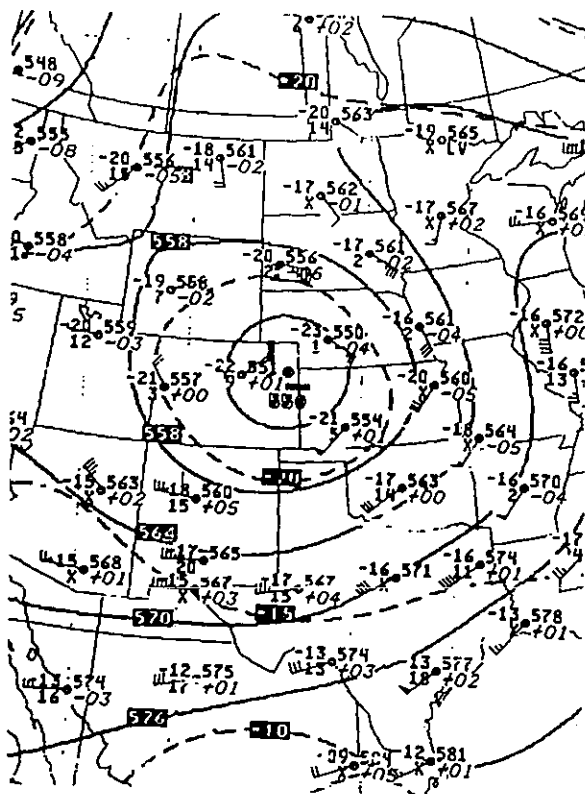


Composite 6PM CST April 4, 1986

04APR86 1125-2145 CST 93 REPORTS 7 TORNADOES



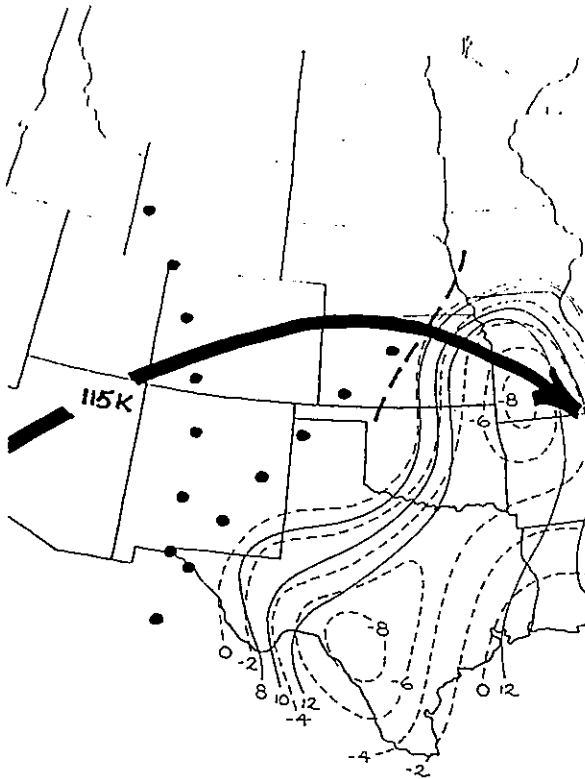
Surface 9PM CST April 4, 1986



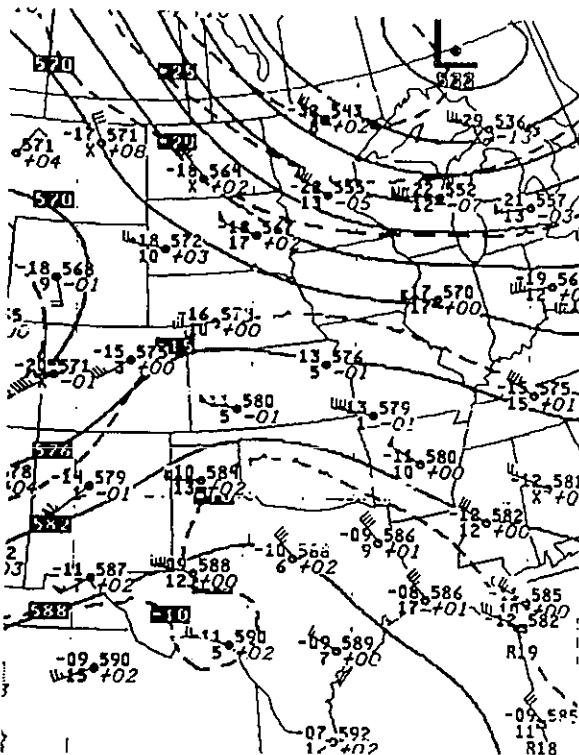
500 MB 6PM CST April 4, 1986



GOES 8:30 PM CST April 4, 1986

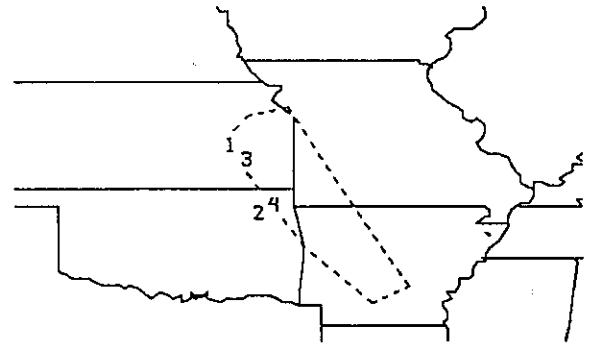


Composite 6PM CST April 7, 1986

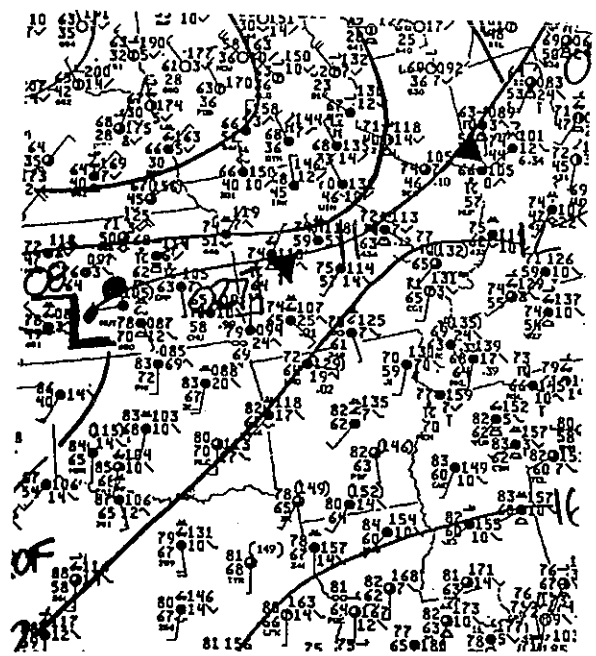


500 MB 6PM CST April 7, 1986

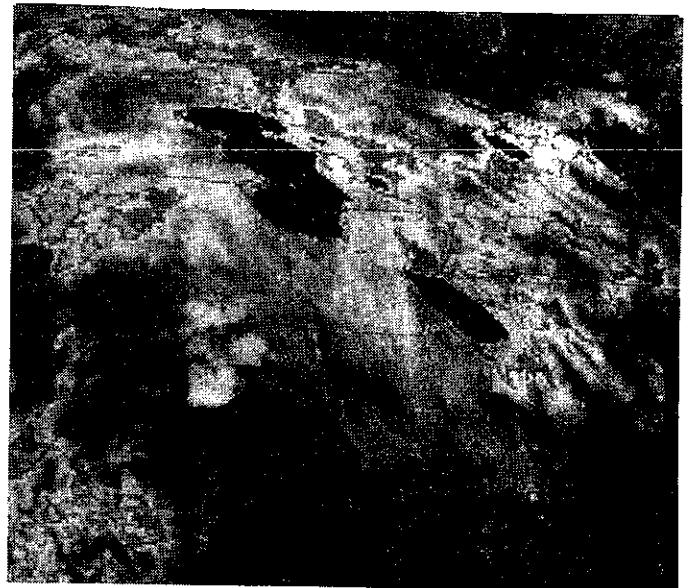
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1725	4.00 INCH HAIL	KS	MADISON				
2	1744	TORNADO-F2	OK	4 NM ADLER	5			
3	1745	TORNADO-F2	KS	5 NM VIRELL	22			
4	1807	4.00 INCH HAIL	OK	PENSACOLA				



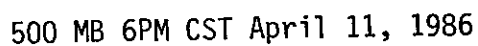
07APR86-08APR86 1425-0335 CST 86 REPORTS 12 TORNADOES



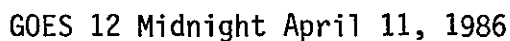
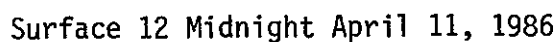
Surface 6PM CST April 7, 1986

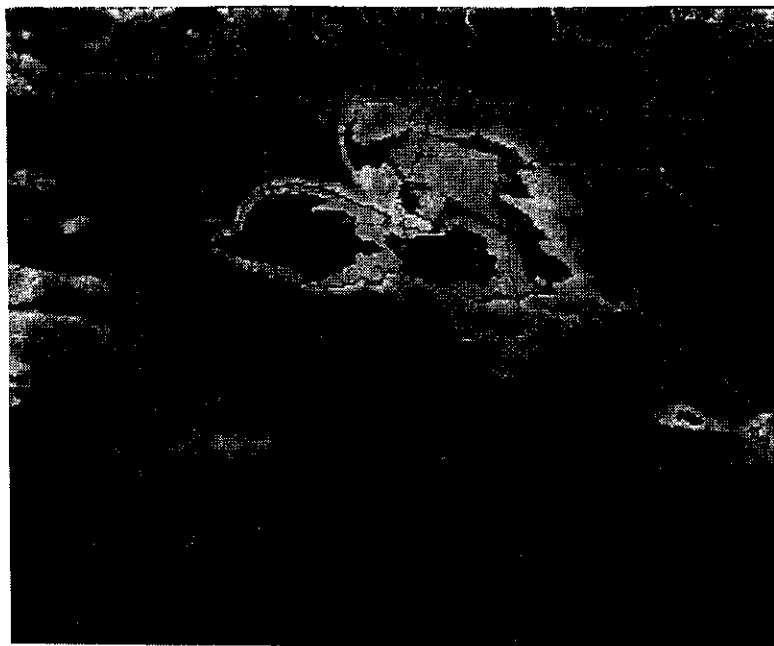


GOES 6PM CST April 7, 1986



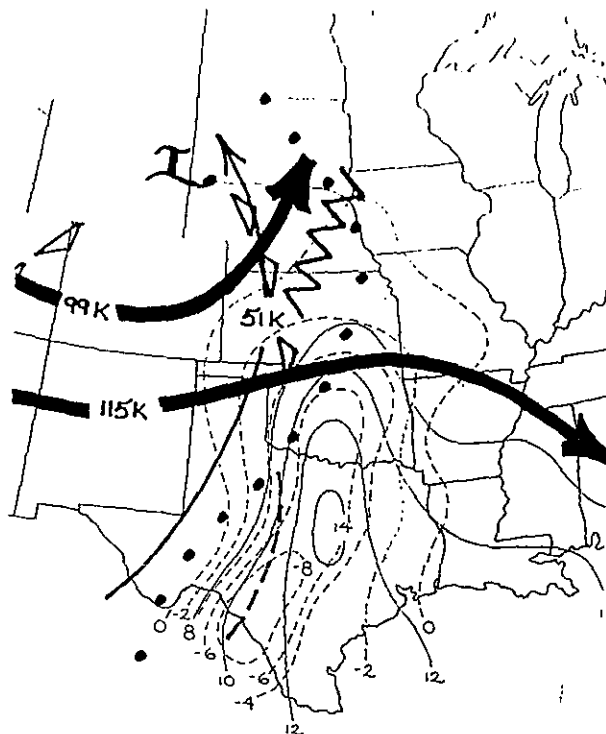
11APR86-12APR86 2130-0530 CST 73 REPORTS 6 TORNADOES





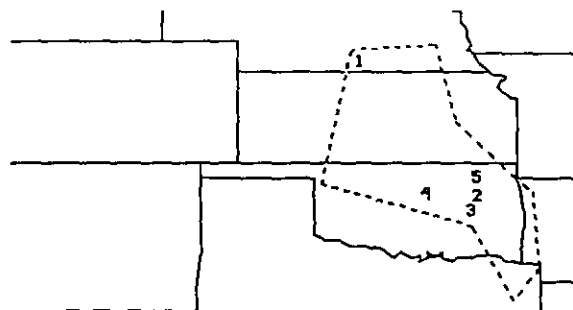
GOES 3:01AM CST April 12, 1986

No. 41 April 13, 1986



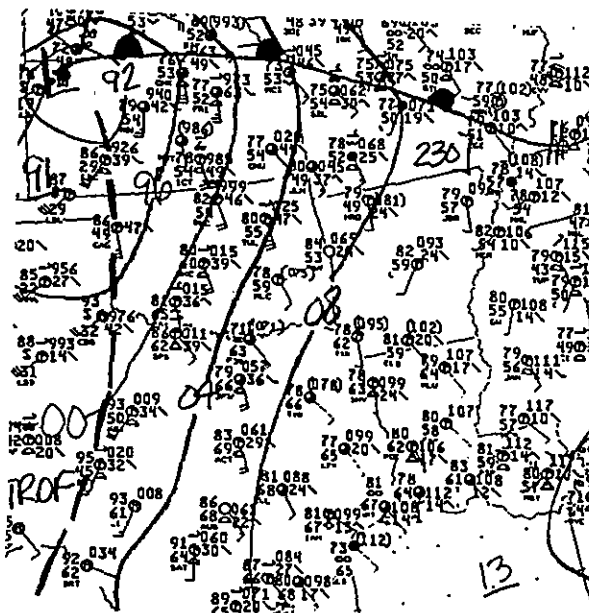
Composite 6PM CST April 13, 1986

NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1612	TORNADO-F2	NE	KINDEN	5	0	0	5
2	2320	TORNADO-F2	OK	BROKEN ARROW	4	0	2	6
3	2345	BUST 85 MPH	OK	MORRIS				
4	2220	BUST 75 MPH	OK	STILLWATER		0	4	4
5	2318	BUST 75 MPH	OK	ROGERS COUNTY		0	1	5

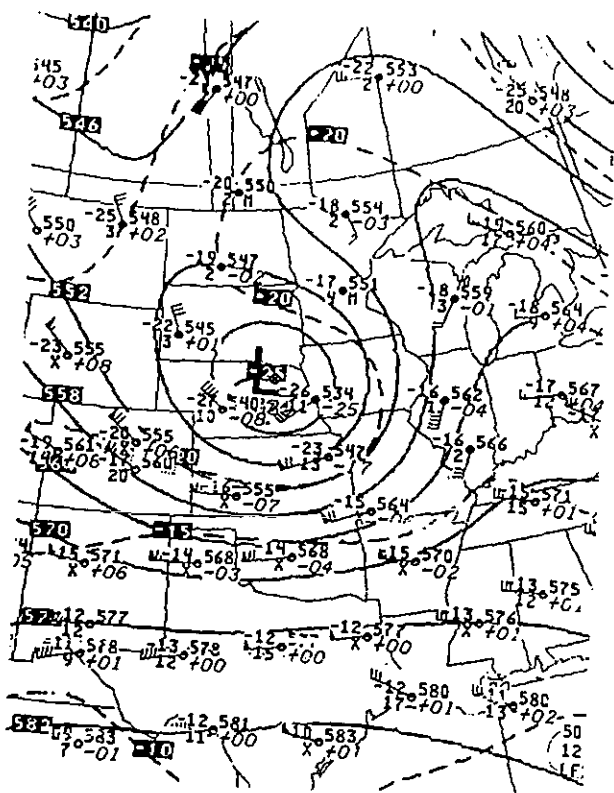


13APR86-14APR86 1612-0145 CST 65 REPORTS 8 TORNADOES

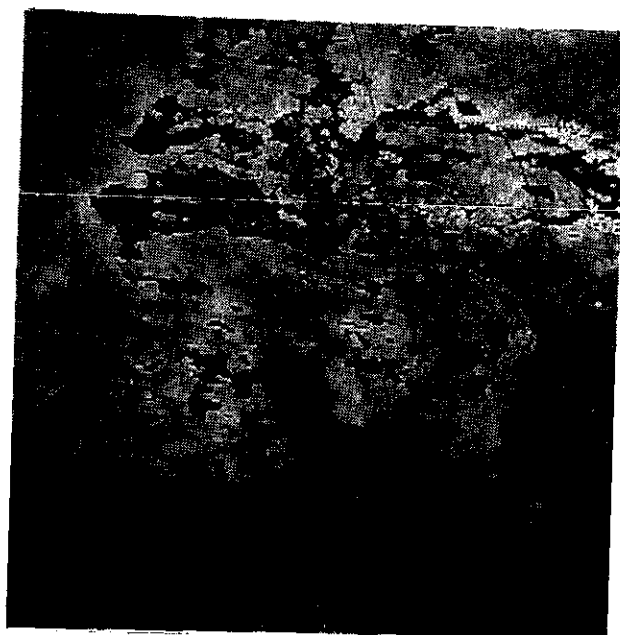
16



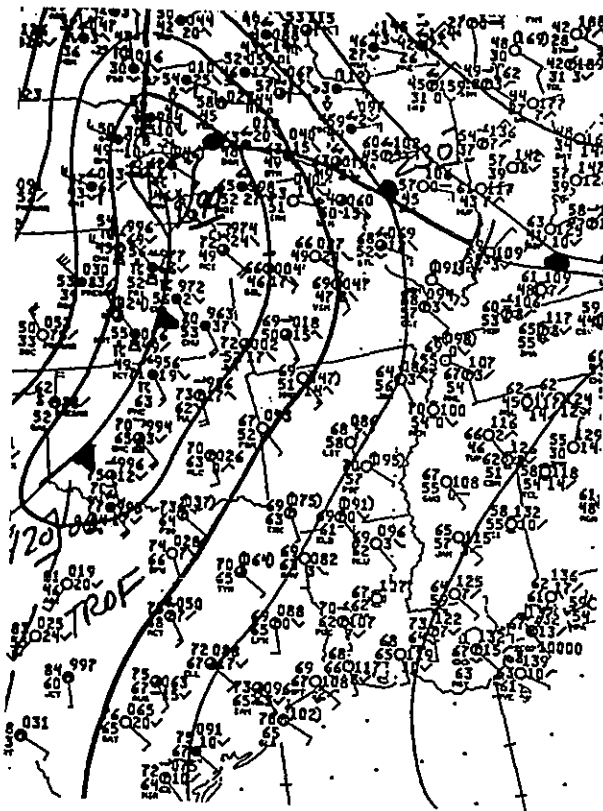
Surface 3PM CST April 13, 1986



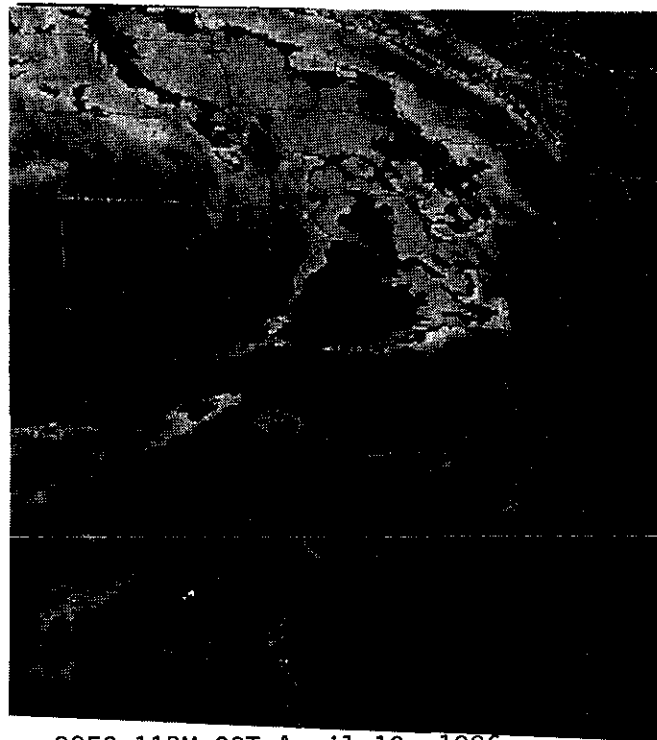
500 MB 6AM CST April 13, 1986



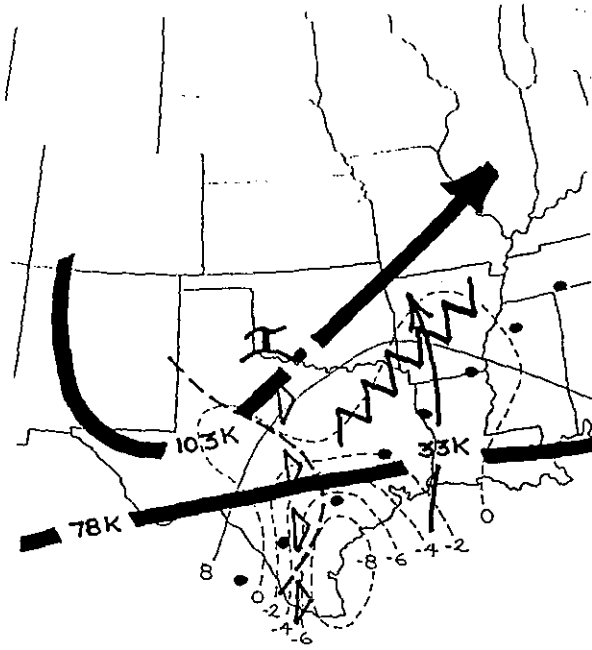
GOES 4PM CST April 13, 1986



Surface 9PM CST April 13, 1986

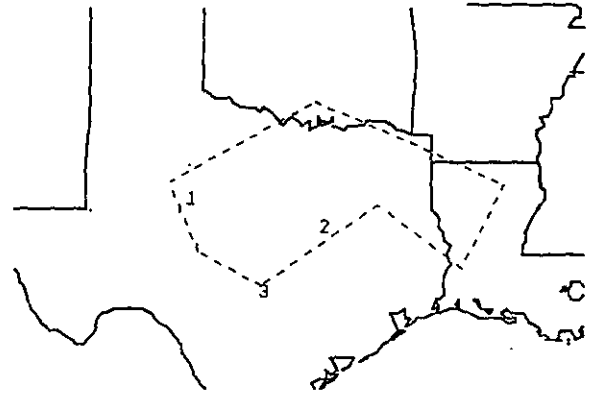


GOES 11PM CST April 13, 1986

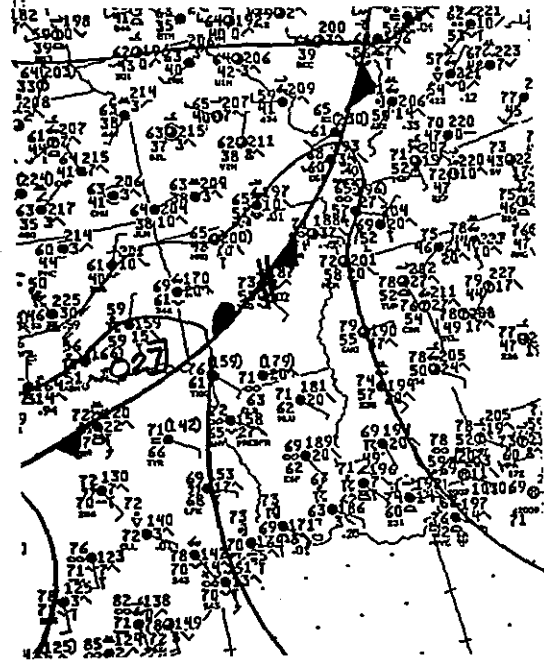


Composite 6PM CST April 19, 1986

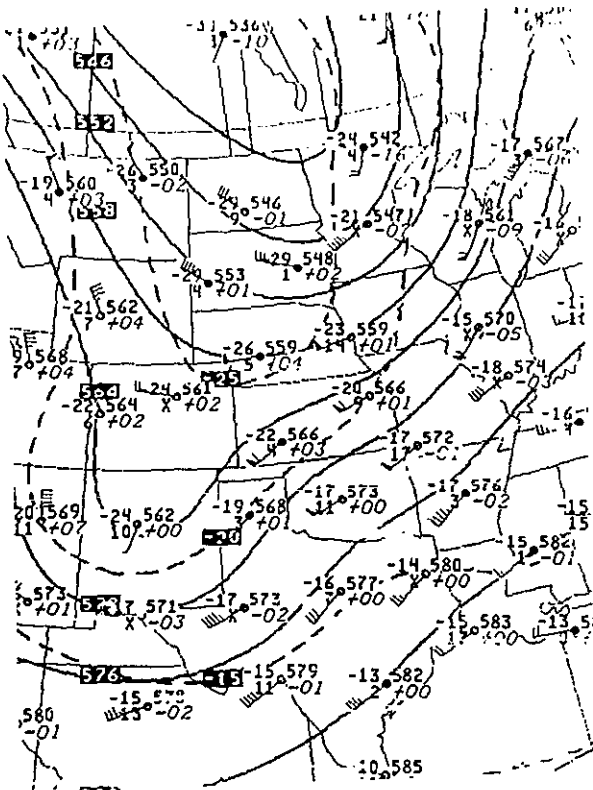
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	0715	TORNADO-F3	TX	SHEETWATER	4.5	1	100	7
2	1340	TORNADO-F1	TX	MOUNT CALH			2	5
3	1617	TORNADO-F1	TX	SANDY			2	5



19APR 0715-1745 CST 88 REPORTS 11 TORNADOES



Surface 3PM CST April 19, 1986

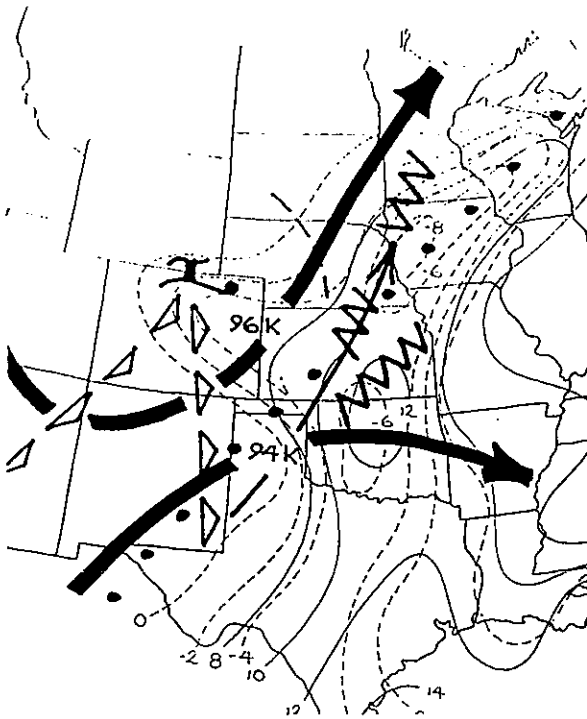


500MB CST 6AM CST April 19, 1986



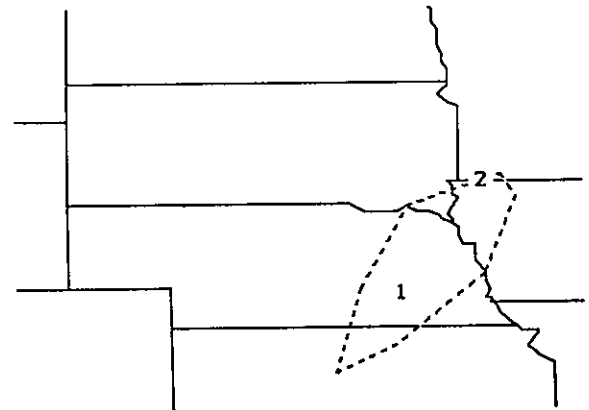
GOES 3PM CST April 19, 1986

No. 43 April 26, 1986

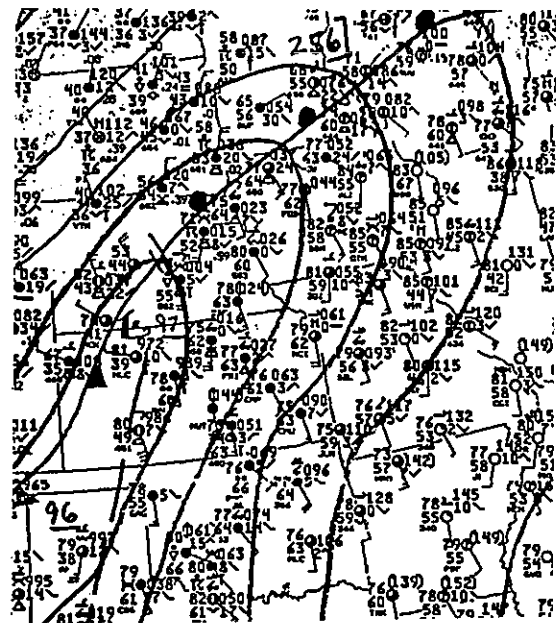


Composite 6 AM CST April 26, 1986

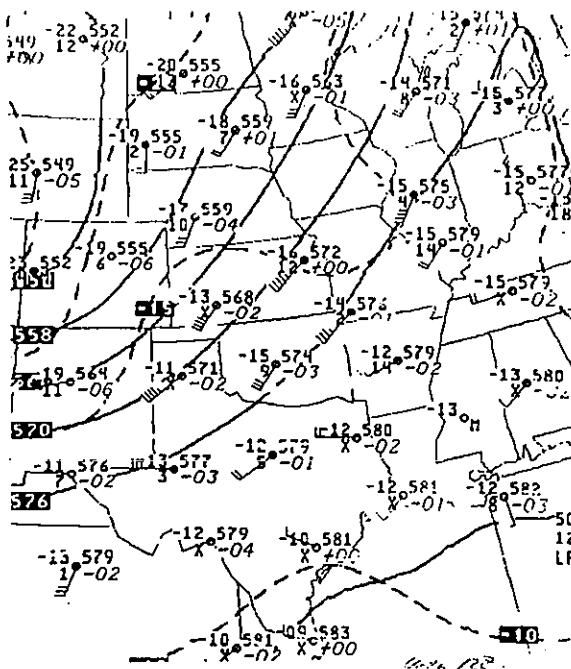
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1625	3.00 INCH HAIL	NE	BENEDICT				
2	1830	TORNADO-F2	MN	RUSHMORE		18	0	2 6



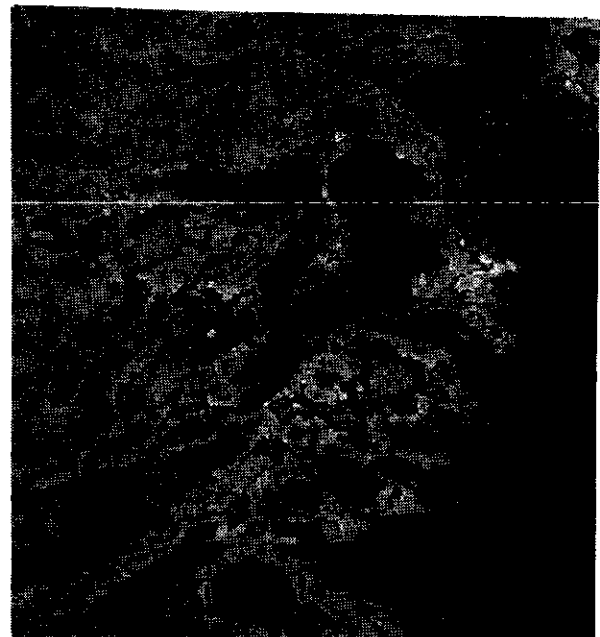
26APR86 1510-2125 CST 37 REPORTS 10 TORNADOES



Surface 6PM CST April 26, 1986

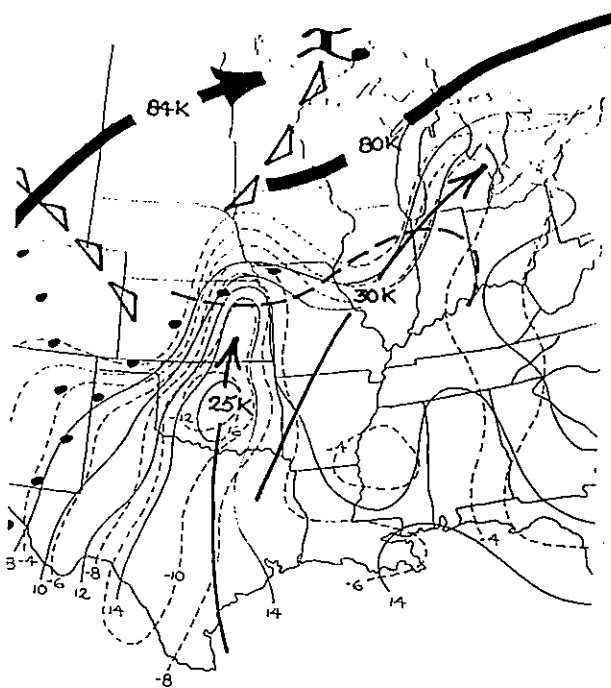


500 MB 6AM CST April 26, 1986

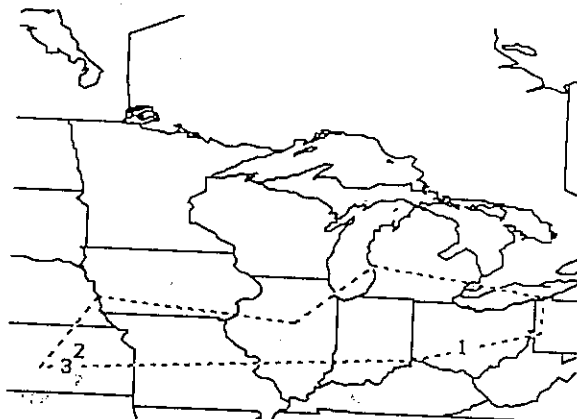


GOES 6:30PM CST April 26, 1986

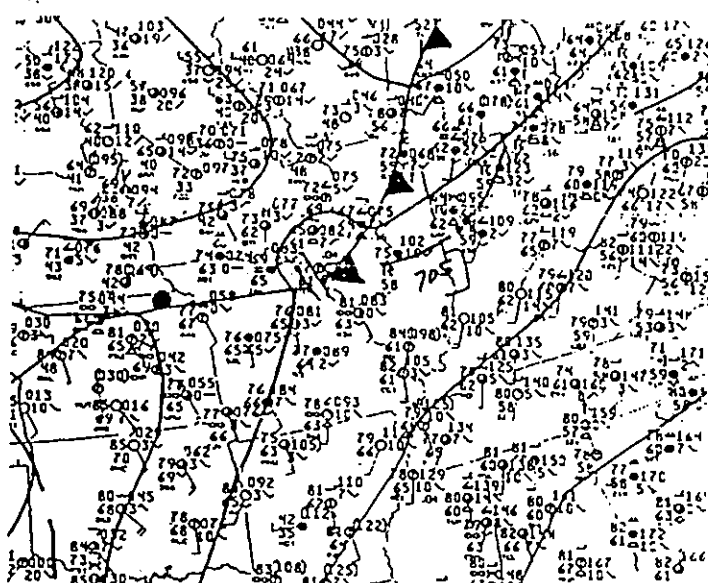
- 1 2000 CST GUST 80 MPH FRANKLIN COUNTY OH
- 2 2000 CST 3.00 INCH HAIL 2 S MARSHALL FIELD KS
- 3 2003-2030 CST TORNADO-F1 WHITE CITY - DWIGHT KS (13 MI)



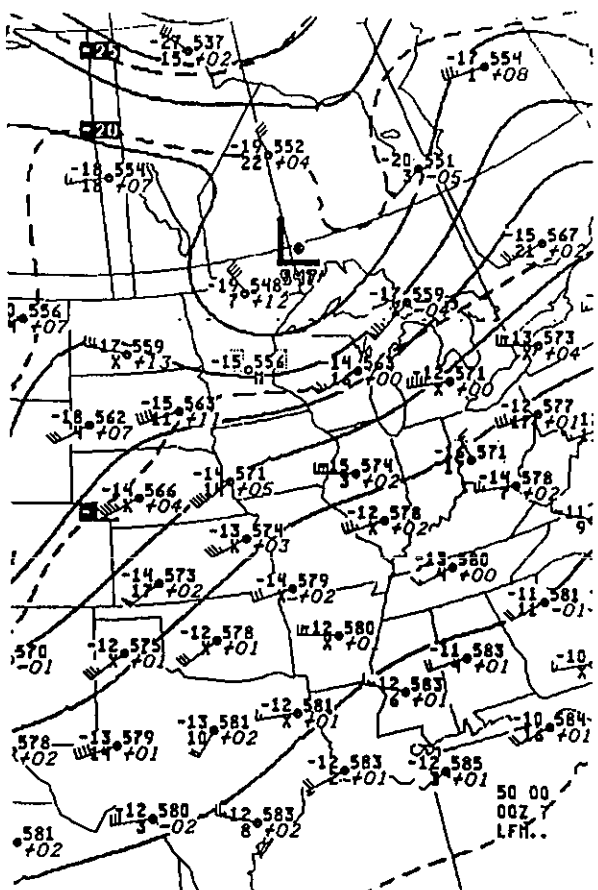
Composite 6PM CST May 6, 1986



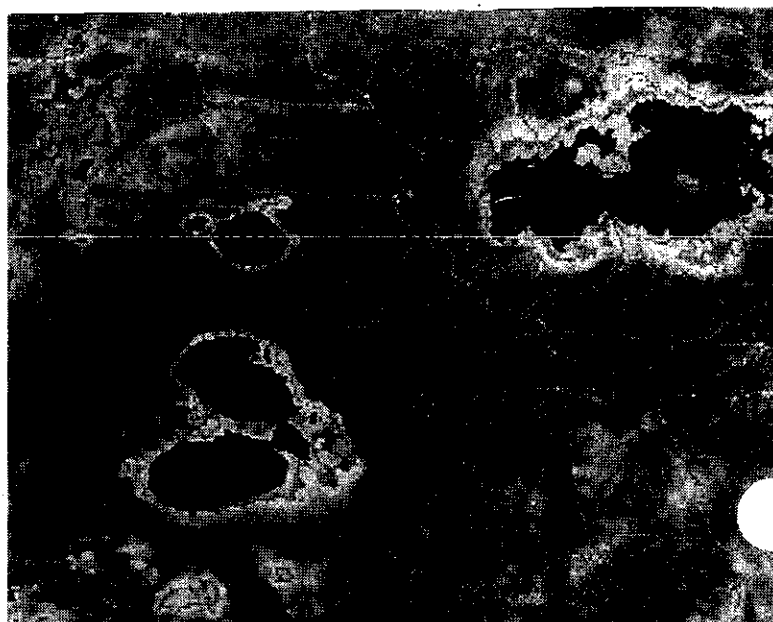
06MAY86-07MAY86 1000-0204 CST 114 REPORTS 1 TORNADO



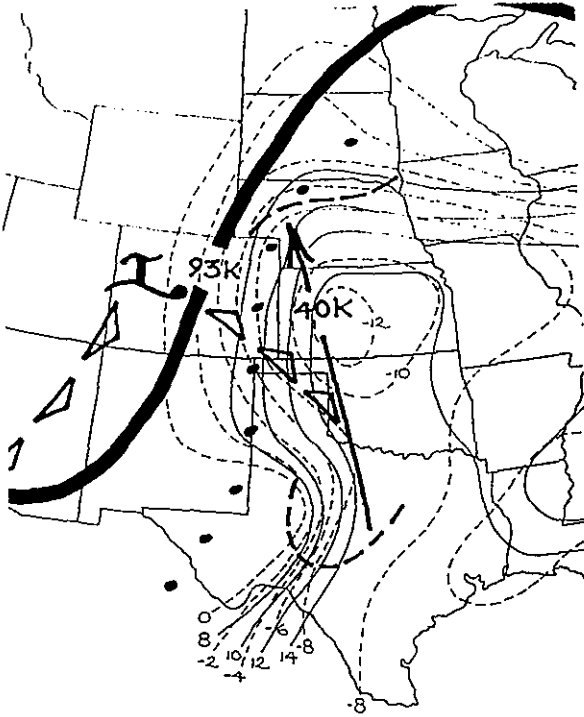
Surface 6PM CST May 6, 1986



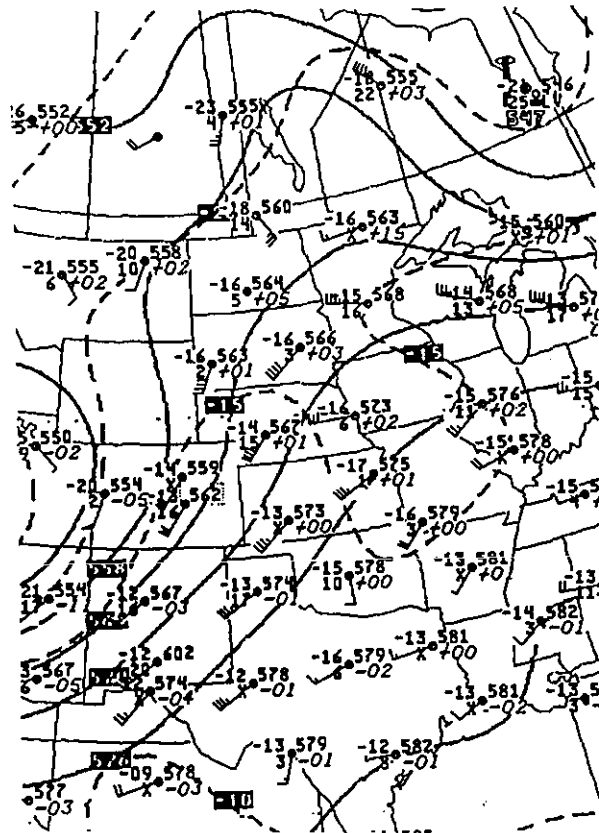
500 MB 6PM CST May 6, 1986



GOES 8PM CST May 6, 1986

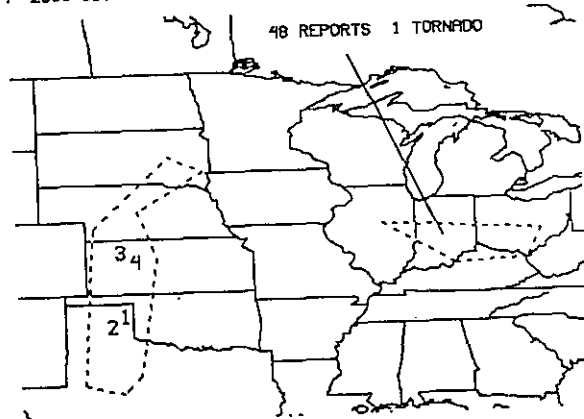


Composite 6PM CST May 7, 1986

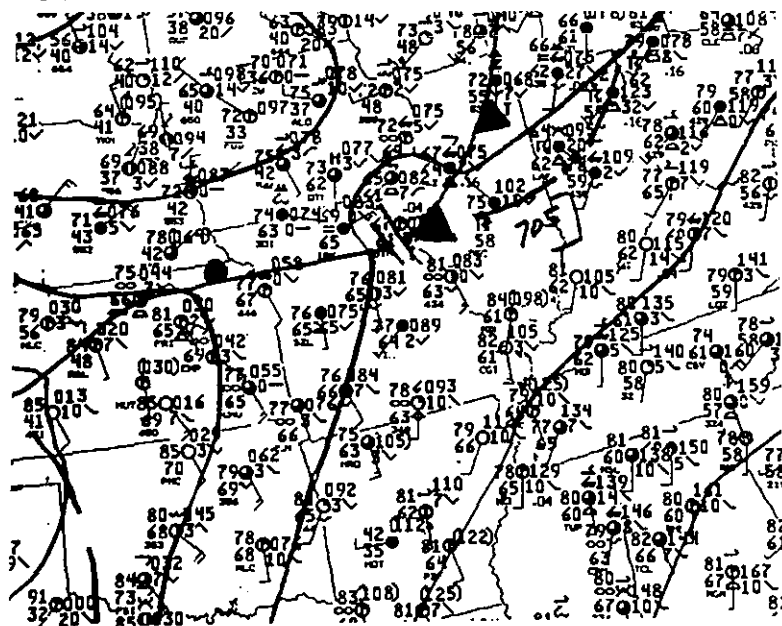


500 MB 6AM CST May 7, 1986

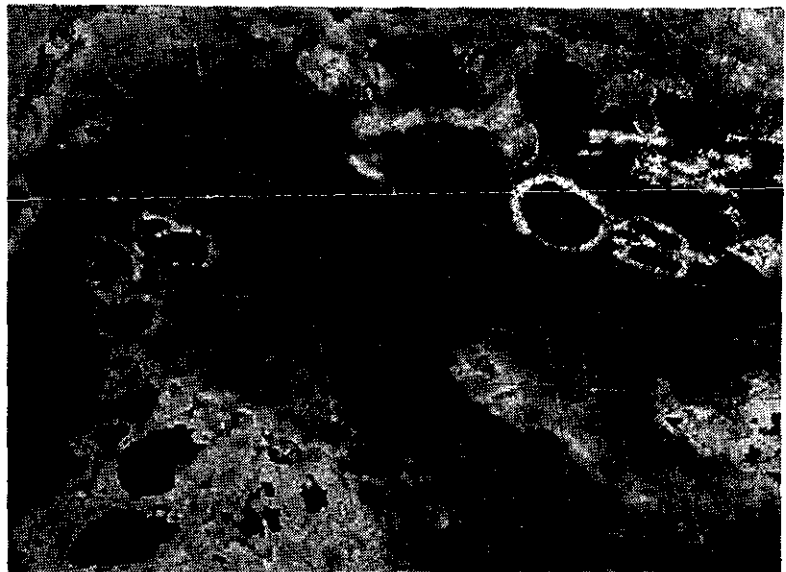
- 1 1618-1638 CST TORNADO-F2 CANADIAN TX 8 MILE PATH
- 2 1635-1651 CST TORNADO-F3 CANADIAN TX 7 MILE PATH
- 3 1805 CST 4.00 INCH HAIL OBERLIN KS
- 4 2005 CST GUST 81 MPH COLLYER KS



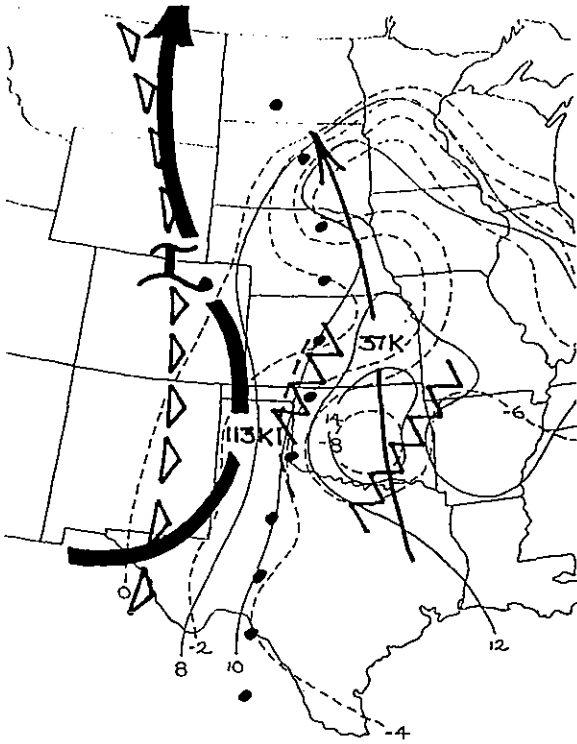
07MAY86 1409-2159 CST 89 REPORTS 9 TORNADOES



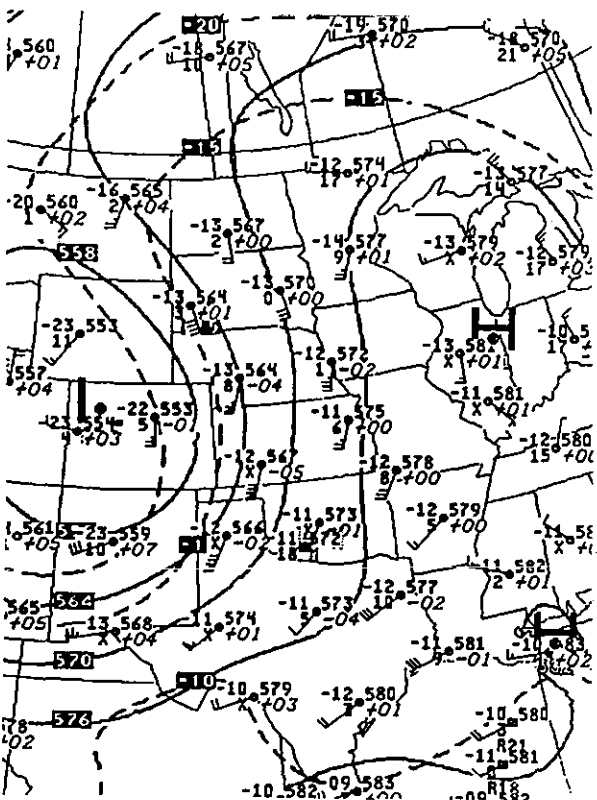
Surface 3PM CST May 7, 1986



GOES 4PM CST May 7, 1986

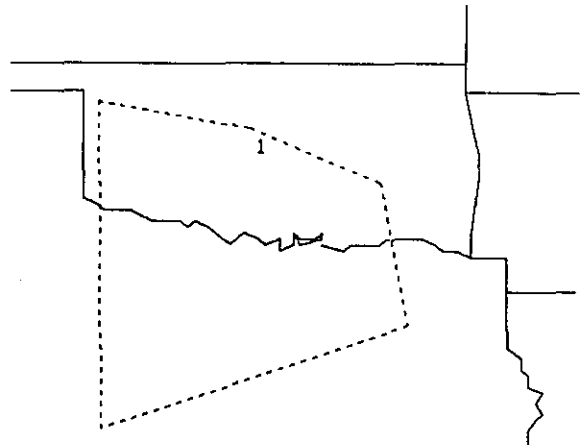


Composite 6PM May 8, 1986

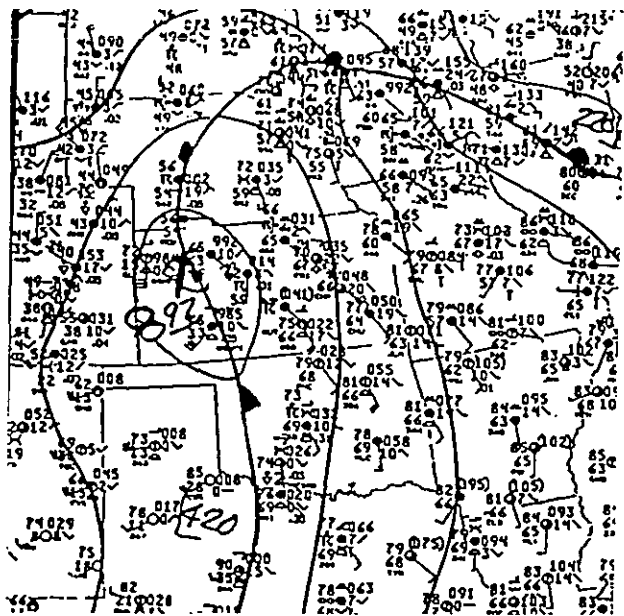


500 MB 6PM CST May 8, 1986

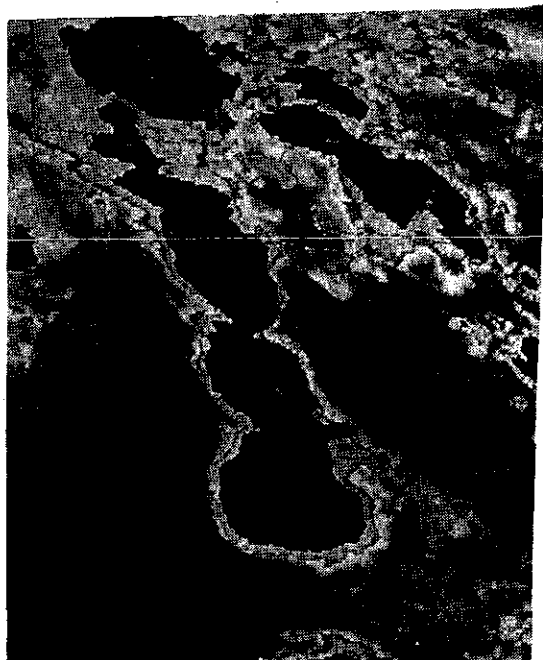
1 1812-1821 CST TORNADO-F3 EDMOND OK 15 INJ \$6.5 MIL DMG



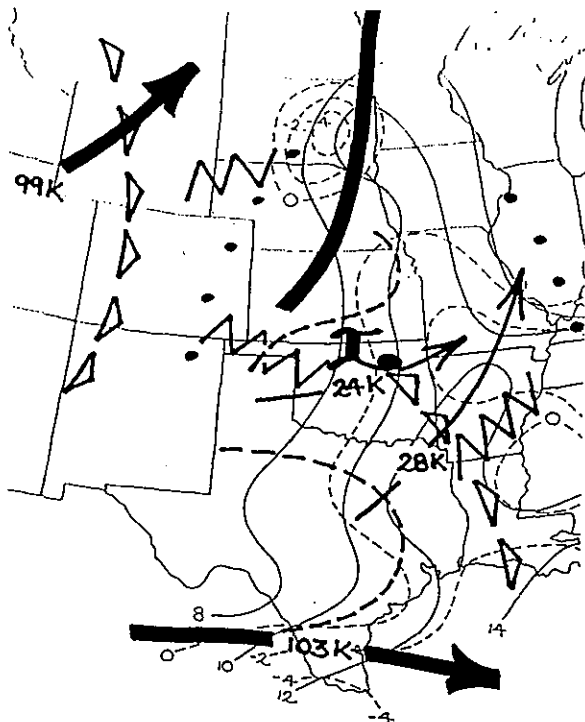
08MAY86 1325-2228 CST 48 REPORTS 4 TORNADOES



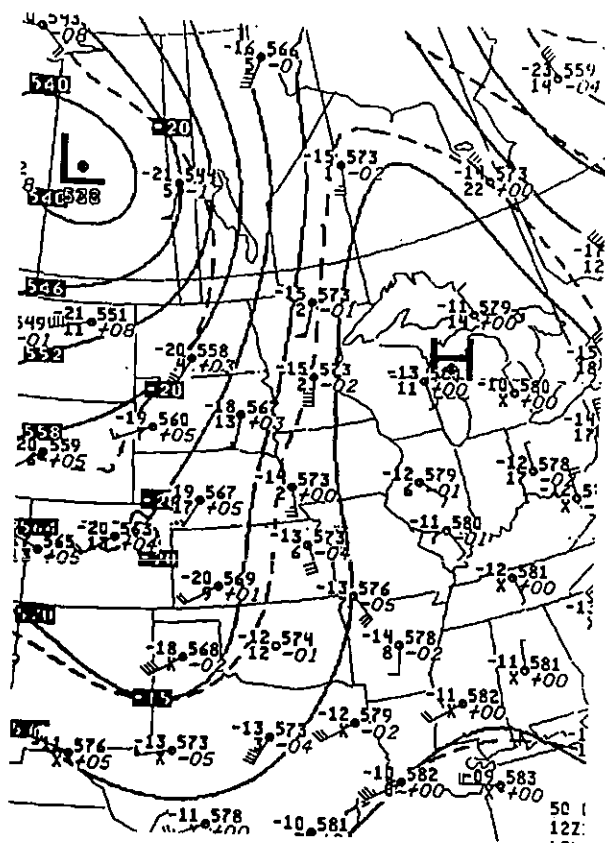
Surface 6PM CST May 8, 1986



GOES 6PM CST May 8, 1986

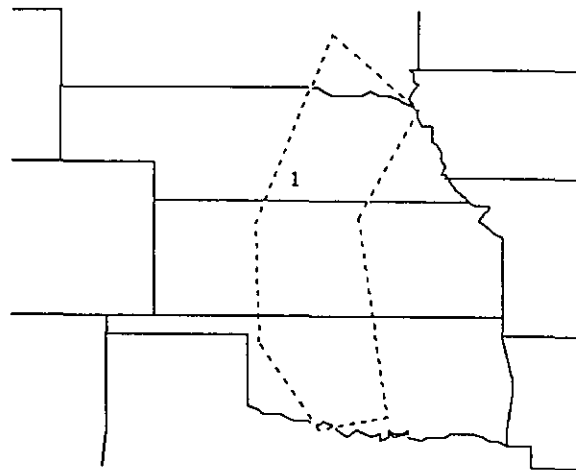


Composite 6PM CST May 10, 1986

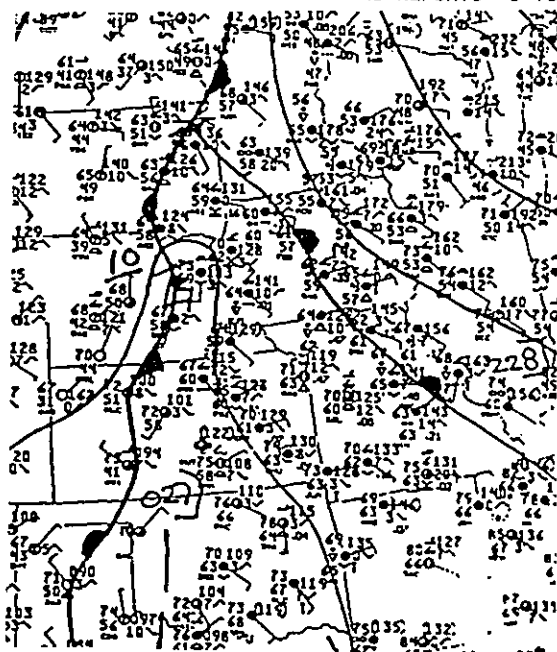


500 MB 6AM CST May 10, 1986

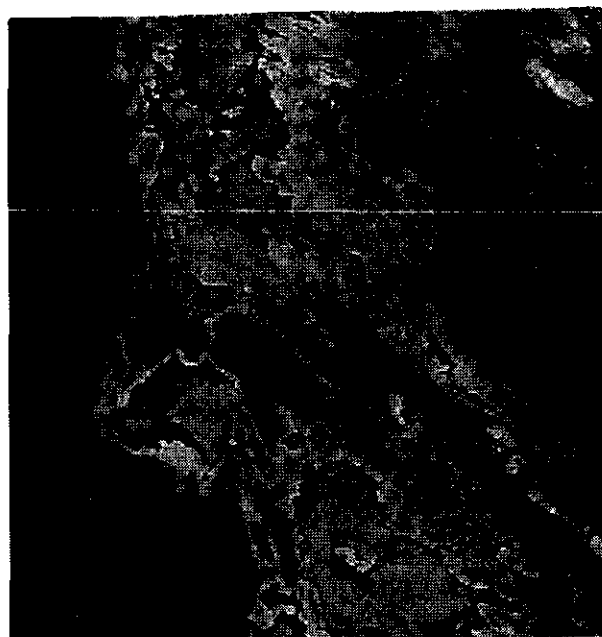
1 1425 CST TORNADO-F1 KEARNEY NE



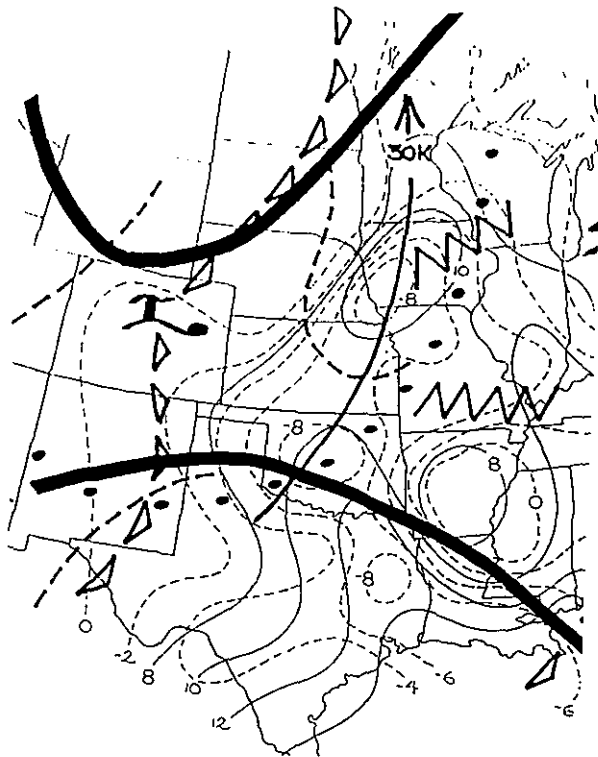
10MAY86 1010-2240 CST 48 REPORTS 8 TORNADOES



Surface 12Noon CST May 10, 1986

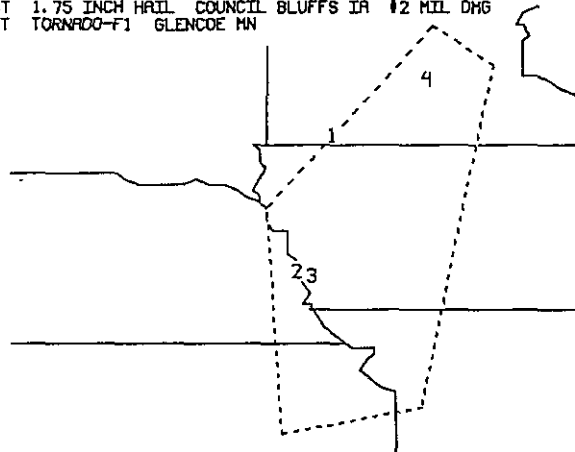


GOES 3:01PM CST May 10, 1986

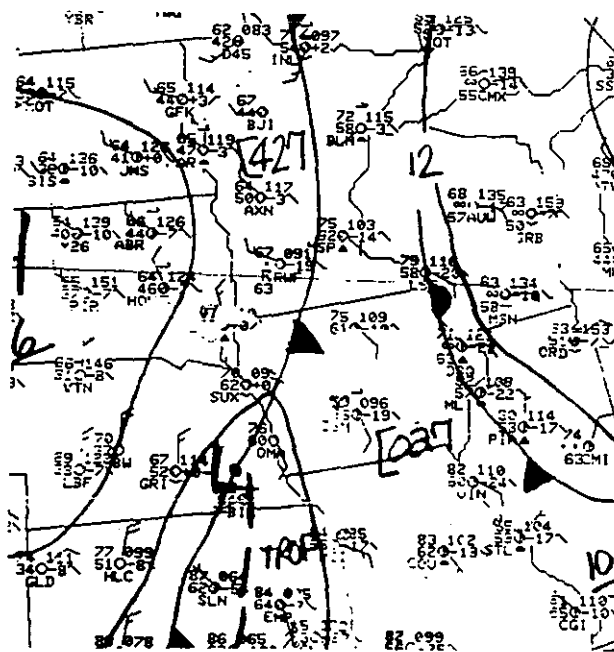


Composite 6PM CST May 12, 1986

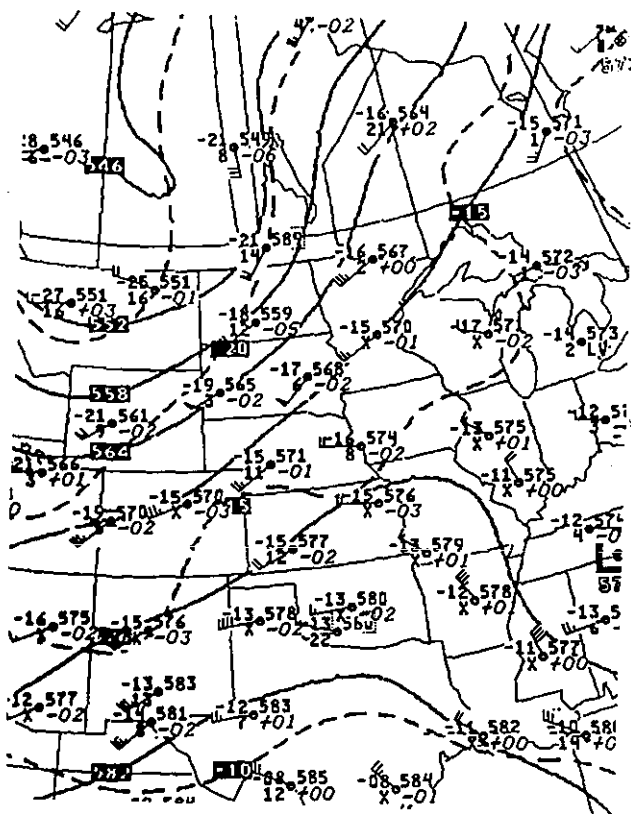
- 1 1435 CST 4.00 INCH HAIL WORKINGTON MN #5 MIL DMG
- 2 1550 CST 2.50 INCH HAIL OHAWA NE #5 MIL DMG
- 3 1645 CST 1.75 INCH HAIL COUNCIL BLUFFS IA #2 MIL DMG
- 4 1615 CST TORNADO-F1 GLENCOE MN



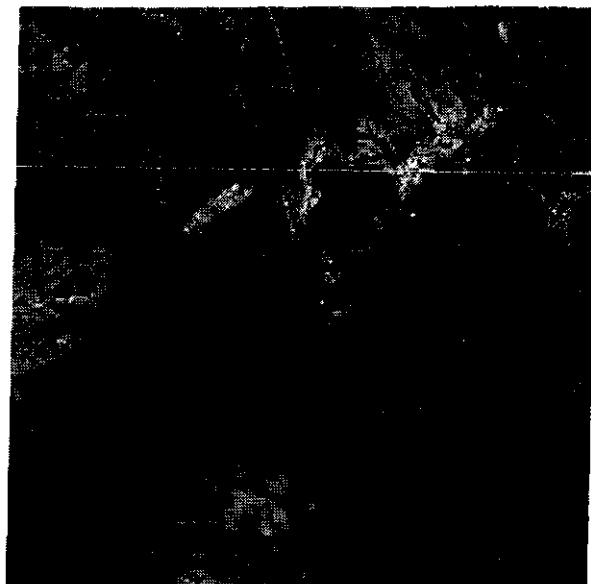
12MAY86-13MAY86 1430-0030 CST 56 REPORTS 2 TORNADOES



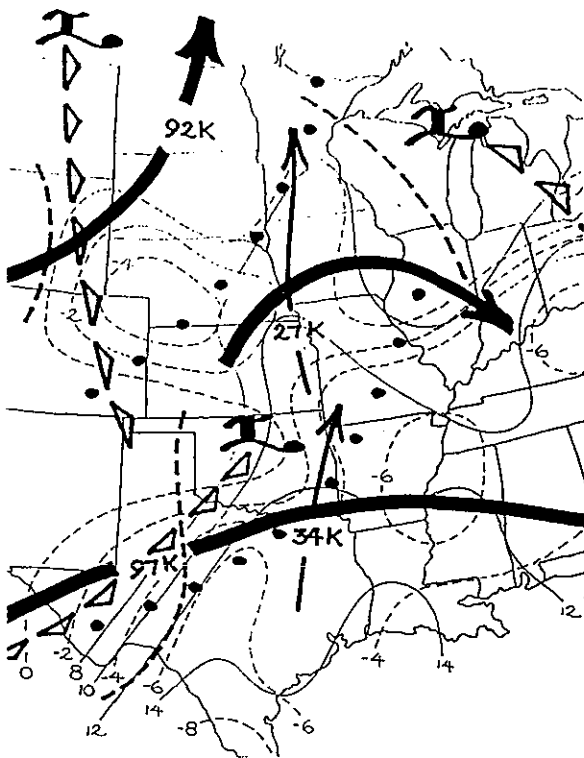
Surface 3PM CST May 12, 1986



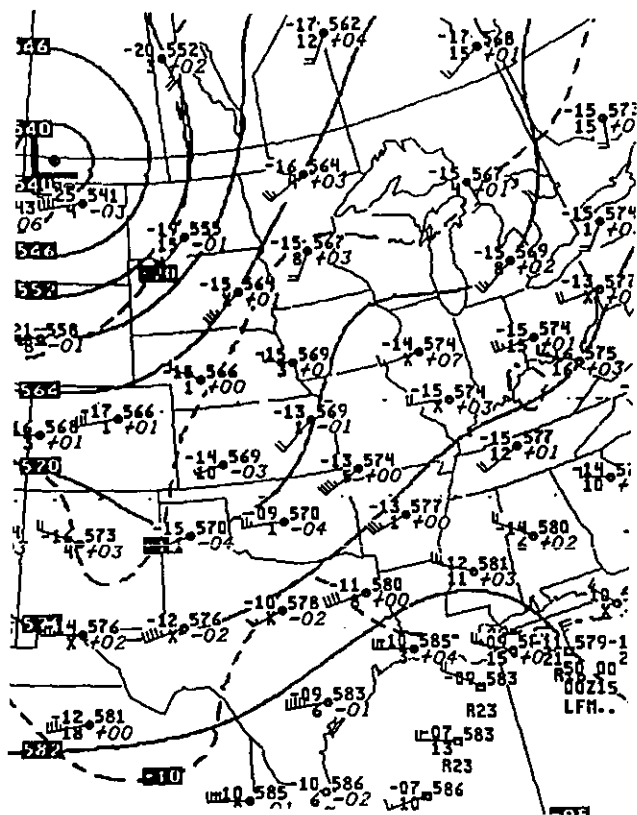
500 MB 6AM CST May 12, 1986



GOES 4:01PM CST May 12, 1986

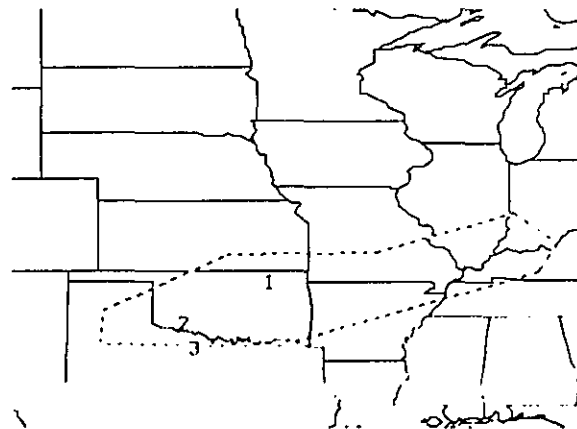


Composite 6PM CST May 14, 1986

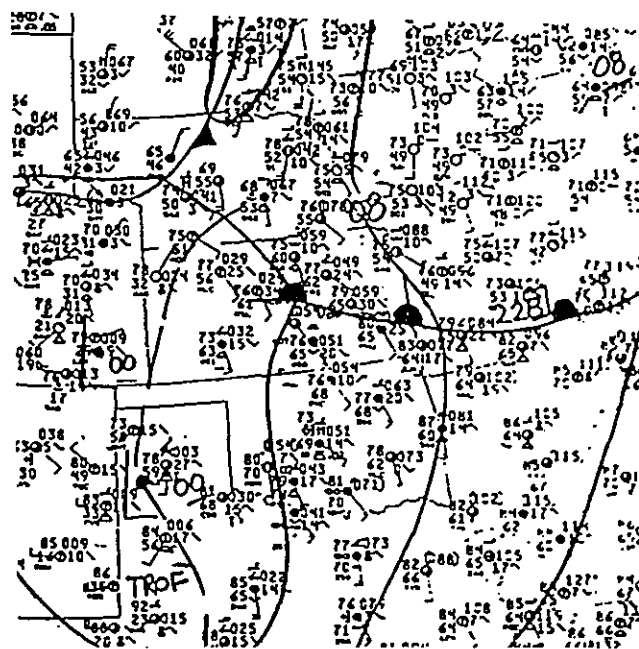


500 MB 6PM CST May 14, 1986

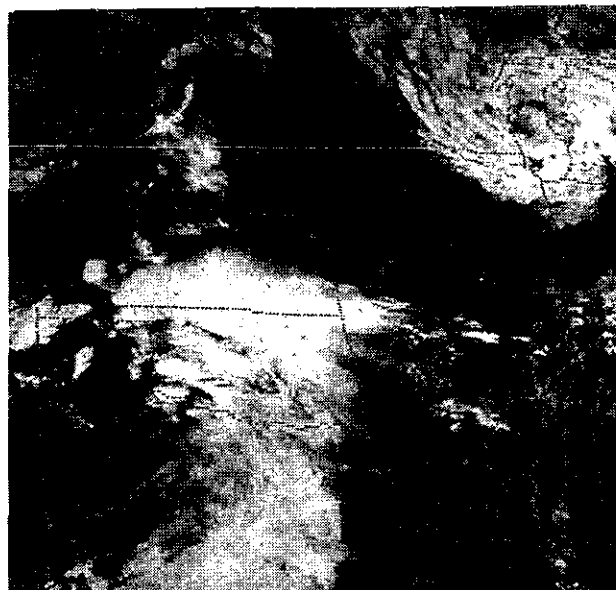
- 1 1148 CST 4.50 INCH HAIL WASHINGTON COUNTY OK
- 2 1509-1515 CST TORNADO-F2 2 S SNYDER OK
- 3 1830 CST TORNADO-F3 ARCHER CITY TX 4 INJ \$3.5 MIL DMG



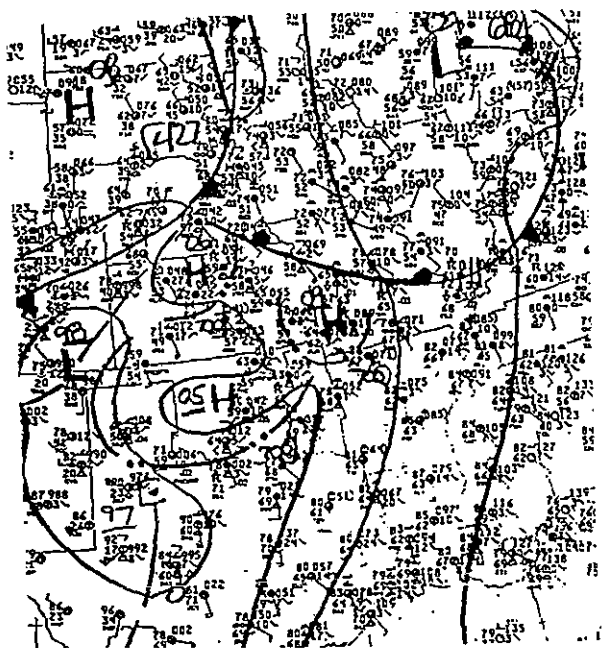
14MAY86-15MAY86 0905-0120 CST 162 REPORTS 16 TORNADOES



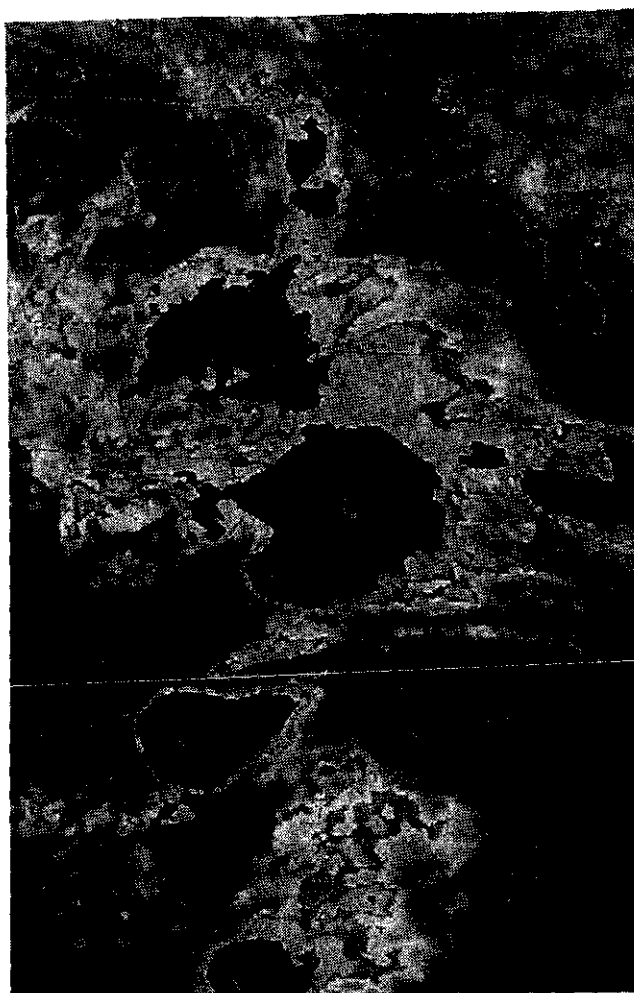
Surface 12Noon CST May 14, 1986



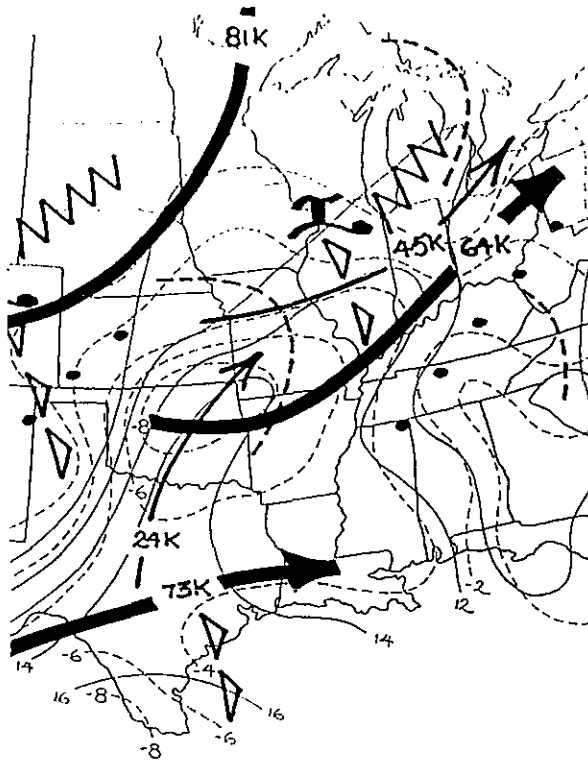
GOES 12:30PM CST May 14, 1986



Surface 6 PM CST May 14, 1986

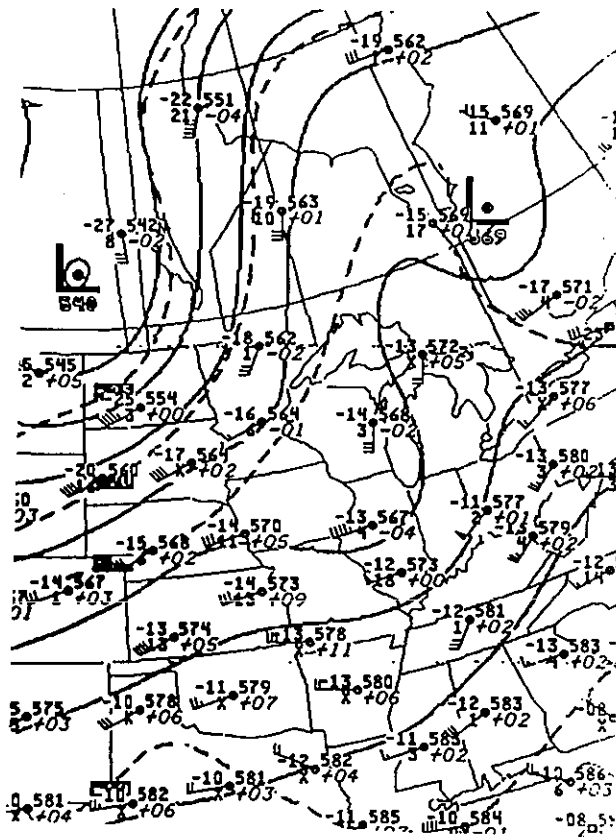
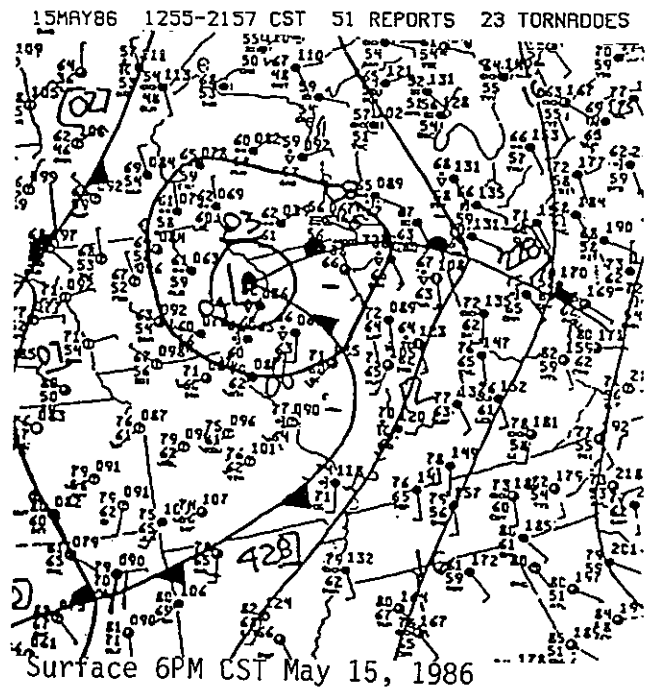
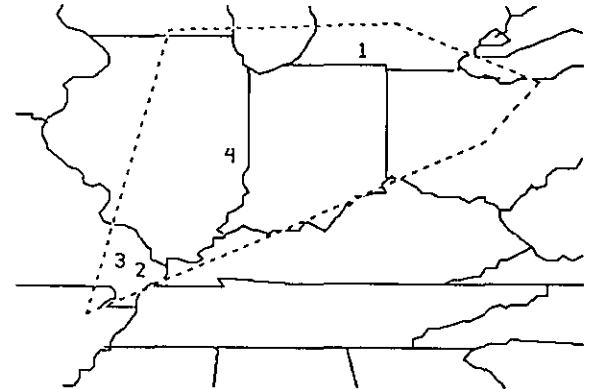


GOES 6:30 PM CST May 14, 1986



Composite 6PM CST May 15, 1986

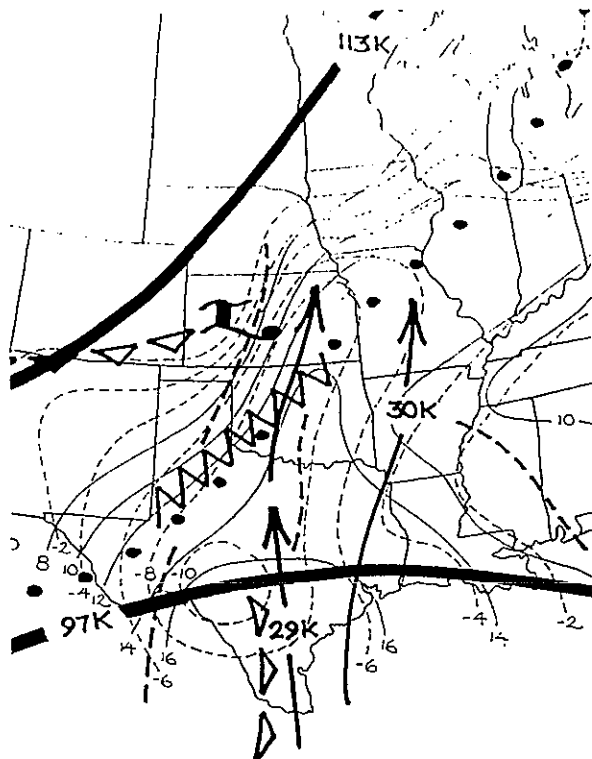
- 1 1654 CST TORNADO-F3 COLDWATER MI #1.6 MIL DMG
- 2 1730 CST TORNADO-F2 SIKESTON MO 19 INJ #5 MIL DMG
- 3 1830 CST TORNADO-F2 VANOUSER MO 1 KIL 15 INJ
- 4 1900-1940 CST GUST 92 MPH EDGAR COUNTY IL



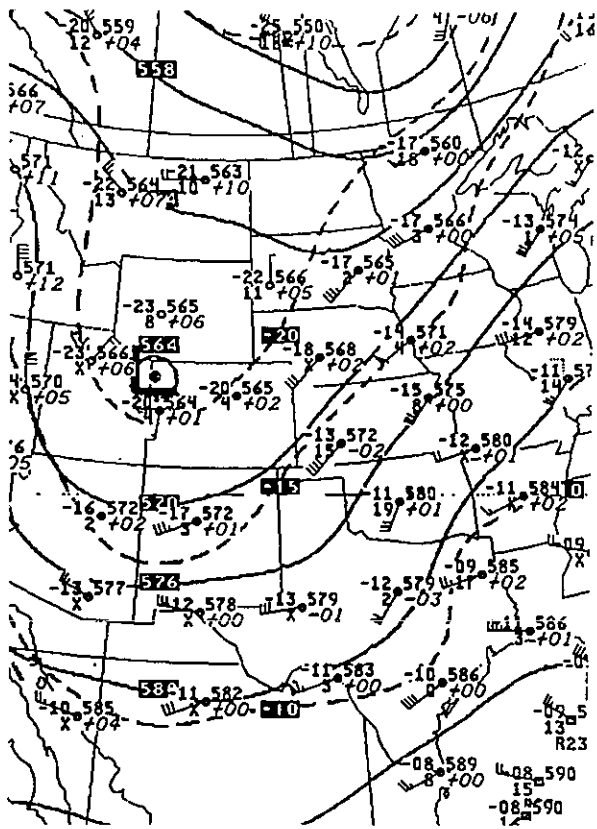
500 MB 6PM CST May 15, 1986



GOES 6PM CST May 15, 1986

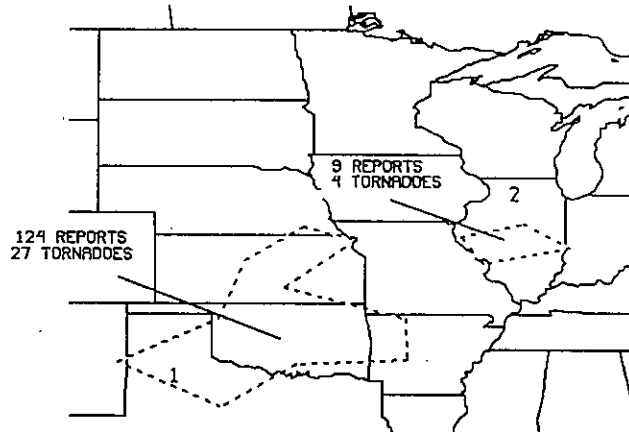


Composite 6PM CST May 16, 1986

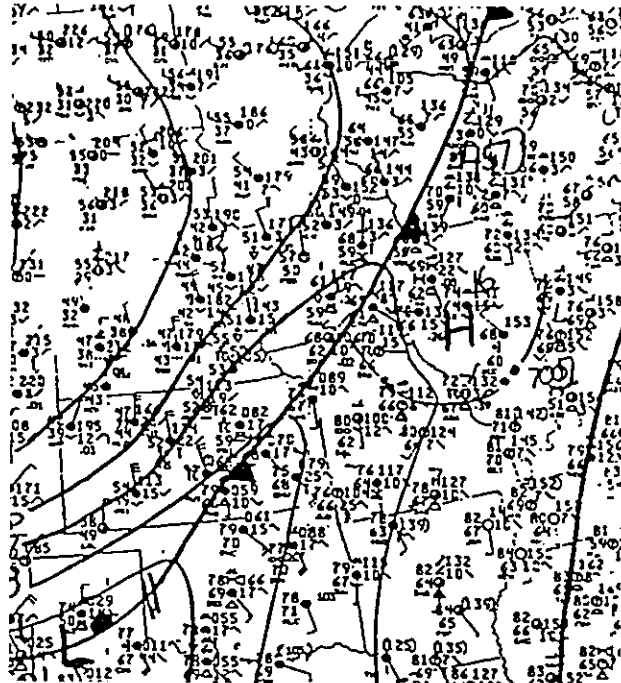


500 MB 6PM CST May 16, 1986

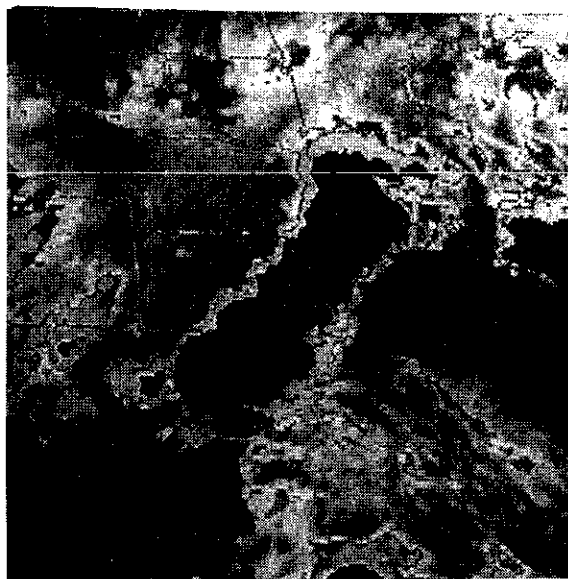
- 1 1825 CST 3.50 INCH HAIL CROSBY COUNTY TX
- 2 0046 CST GUST 75 MPH MOUNT MORRIS IL



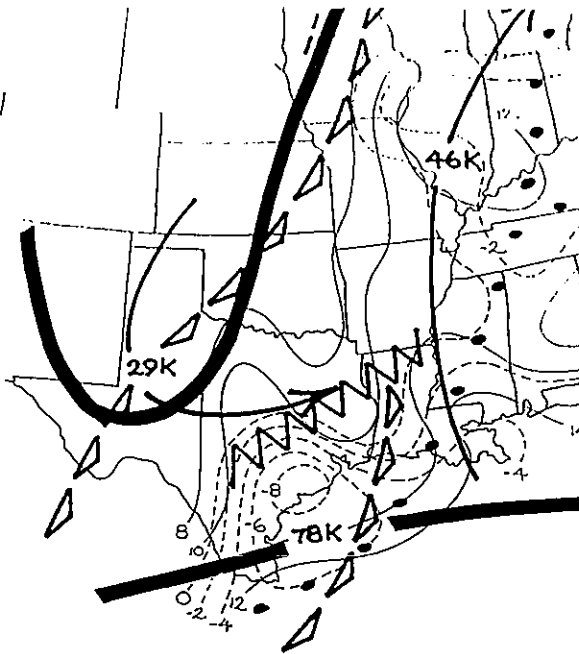
16MAY86-17MAY86 0725-0415 CST 134 REPORTS 31 TORNADOES



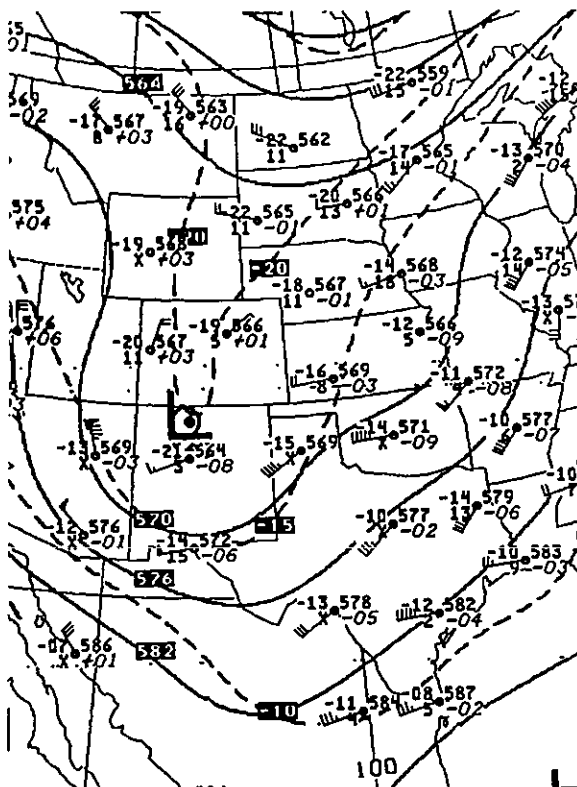
Surface 6PM CST May 16, 1986



GOES 6PM CST May 16, 1986

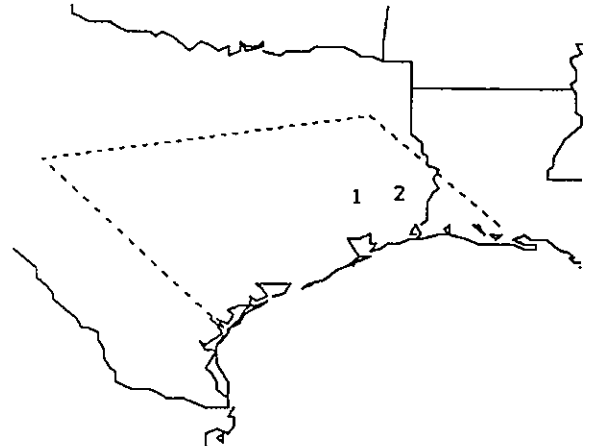


Composite 6PM CST May 17, 1986

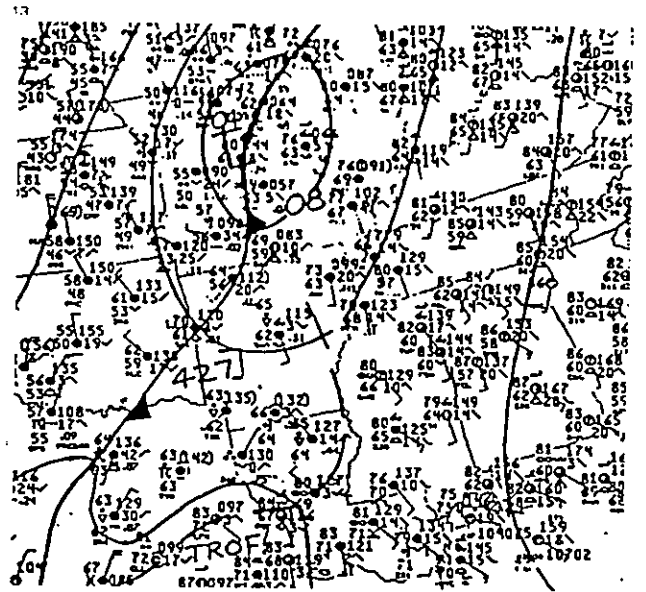


500 MB 6AM CST May 17, 1986

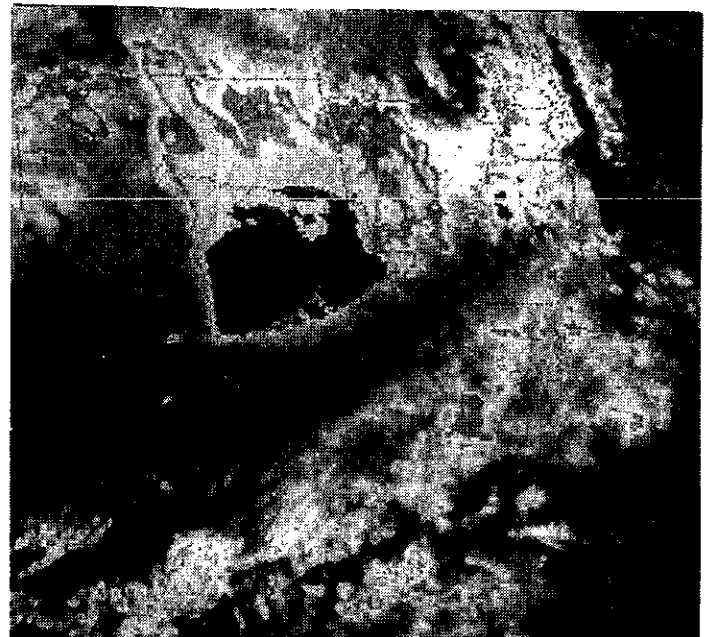
1315 CST GUST 92 MPH LAKE LIVINGSTON TX 5 KILLED
1415 CST GUST 75 MPH LAKE STEINHAGEN TX 1 KILLED



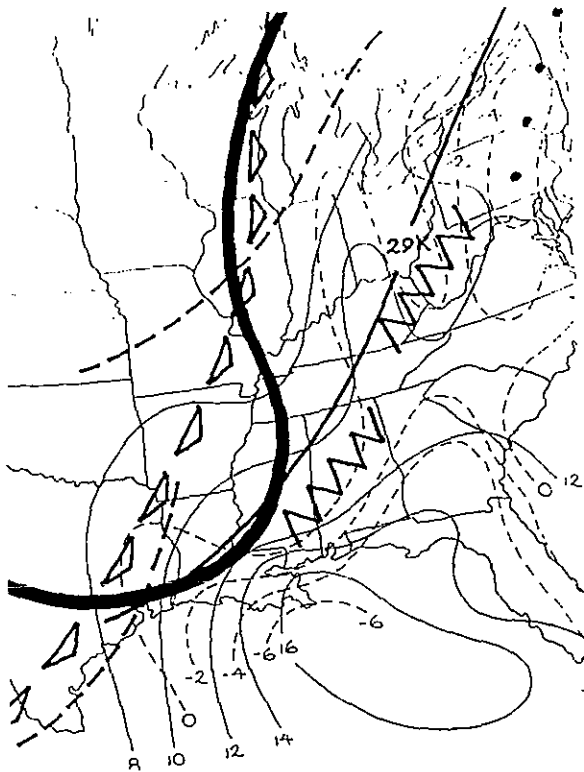
17MAY86 0600-1901 CST 36 REPORTS 6 TORNADOES



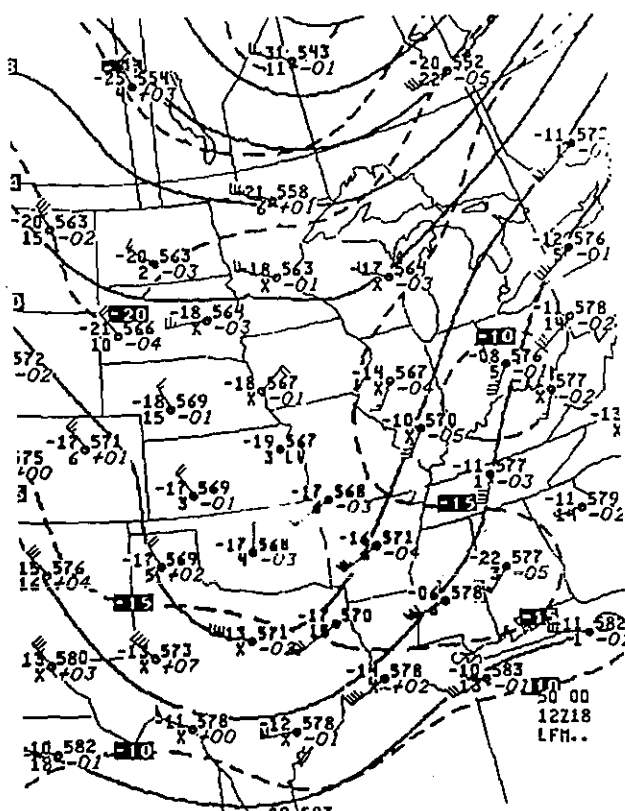
Surface 12 Noon CST May 17, 1986



GOES 1PM CST May 17, 1986

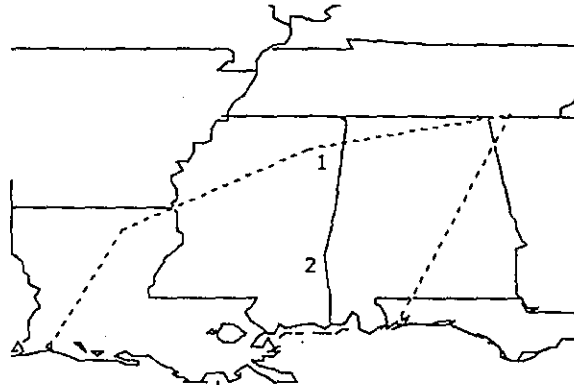


Composite 6PM CST May 18, 1986

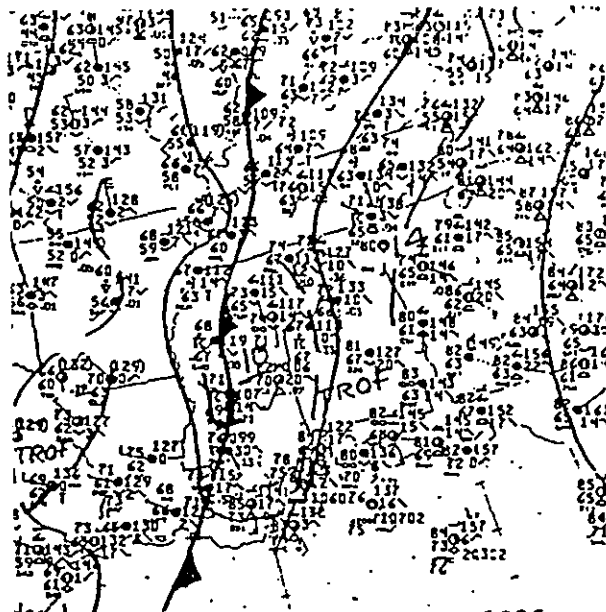


500 MB 6AM CST May 18, 1986

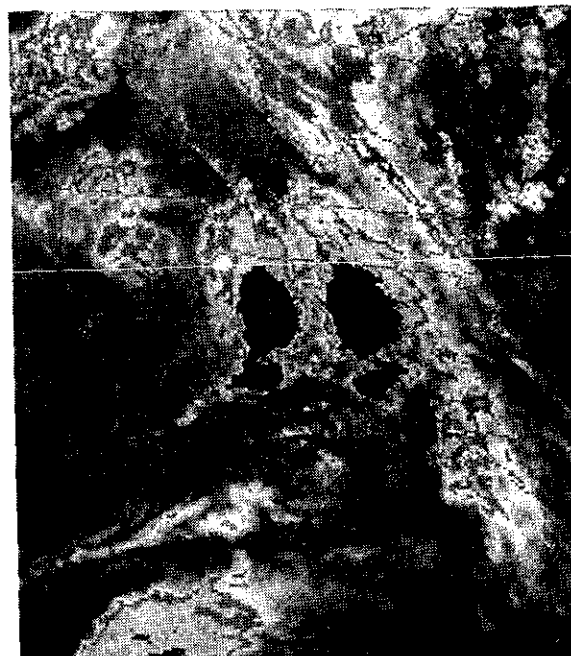
- 1 1245 CST TORNADO-F1 HATLEY MS
- 2 1430 CST TORNADO-F1 SUGAR HILL MS



18MAY86 0835-1740 CST 43 REPORTS 3 TORNADOES

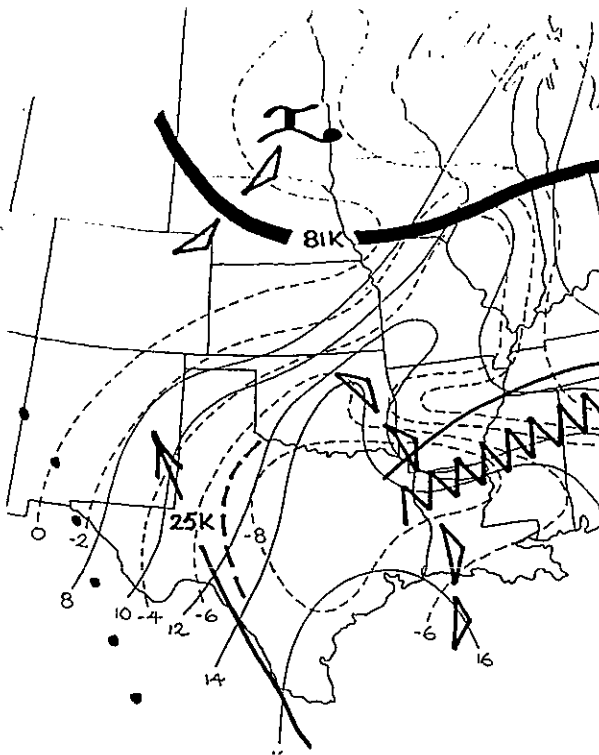


Surface 12 Noon CST May 18, 1986

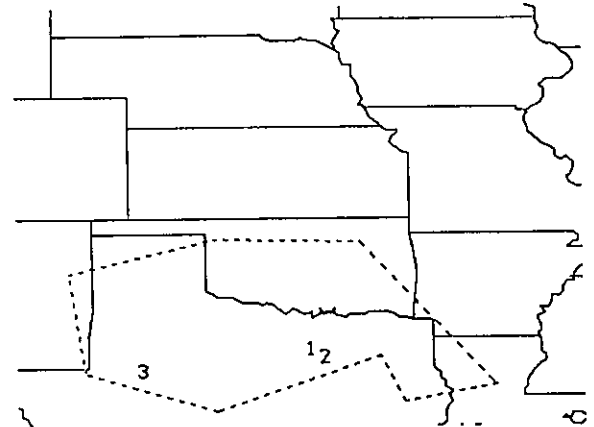


GOES 12 Noon CST May 18, 1986

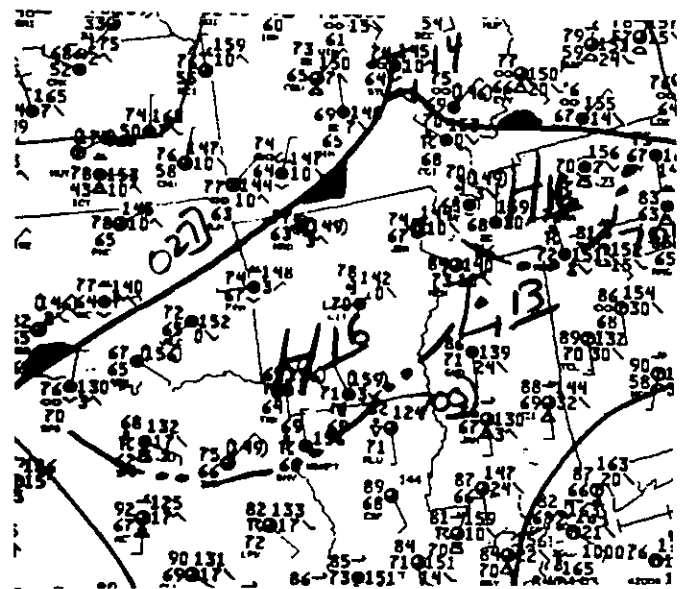
- 1 1440 CST GUST 95 MPH FORT WORTH TX 14 INJ #2 MIL DMG
- 2 1445 CST 3.00 INCH HAIL ARLINGTON TX
- 3 1940 CST 2.75 INCH HAIL STANTON TX #2 MIL DMG



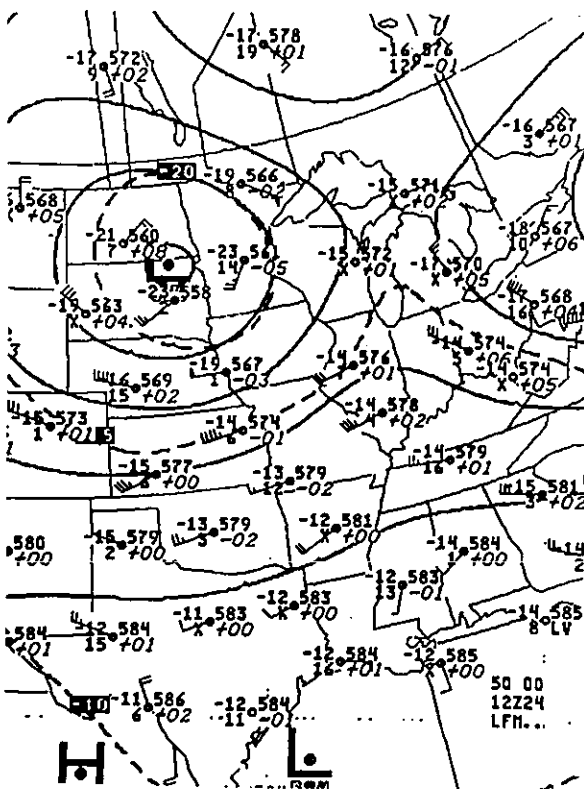
Composite 6PM CST May 24, 1986



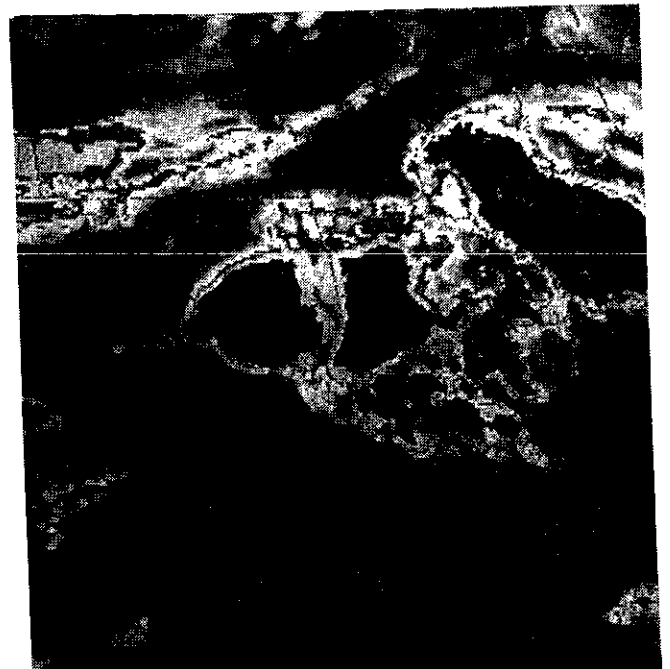
24MAY86 0600-2333 CST 59 REPORTS 3 TORNADOES



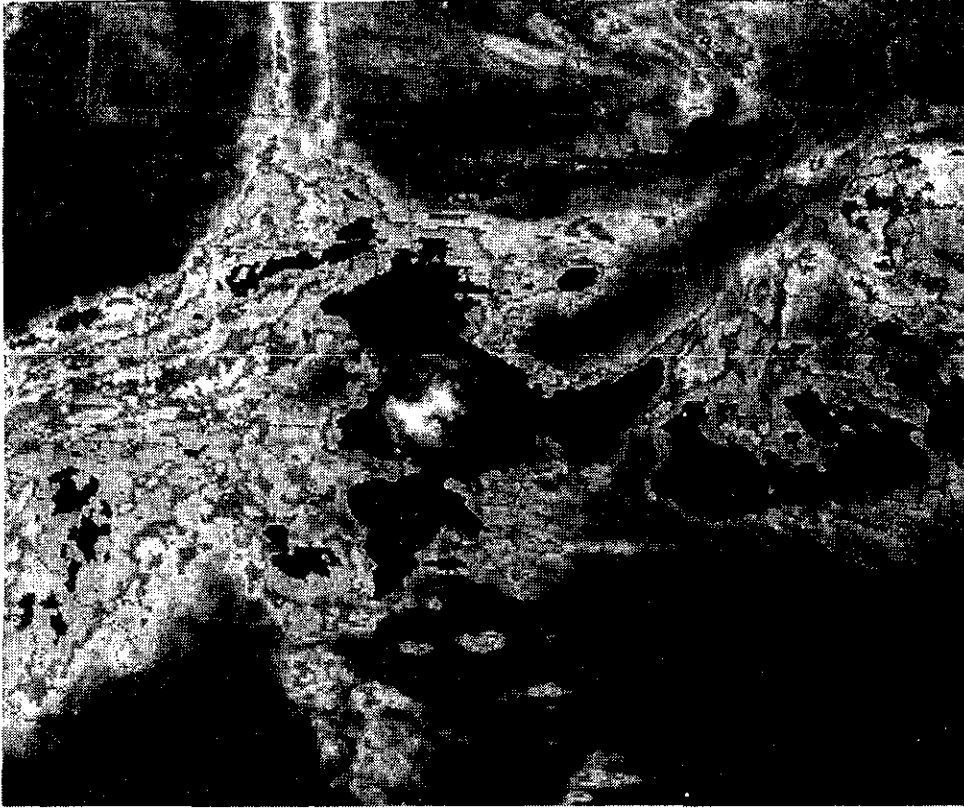
Surface 3PM CST May 24, 1986



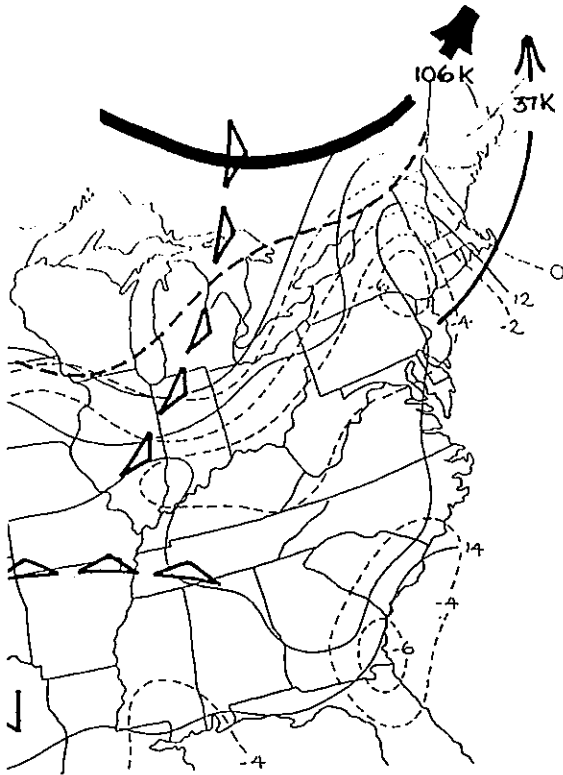
500 MB 6AM CST May 24, 1986



GOES 3:01PM CST May 24, 1986

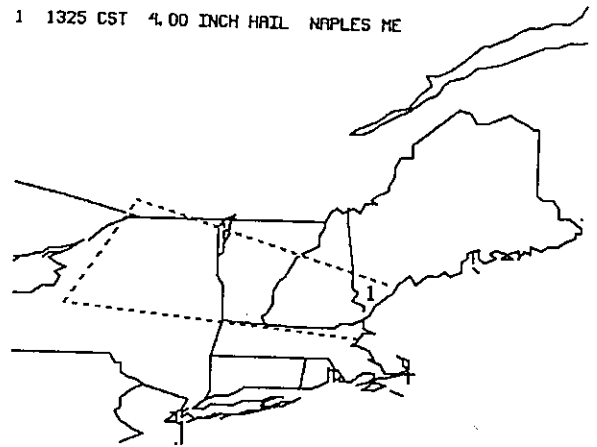


GOES 7:30PM CST May 24, 1986

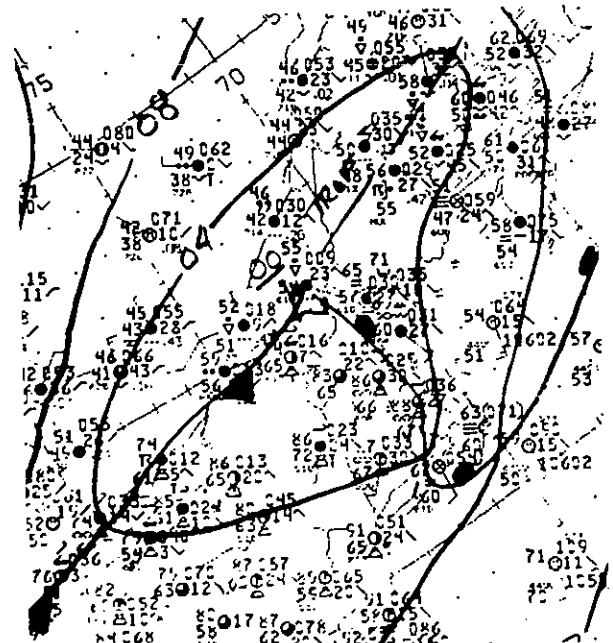


Composite 6PM CST June 1, 1986

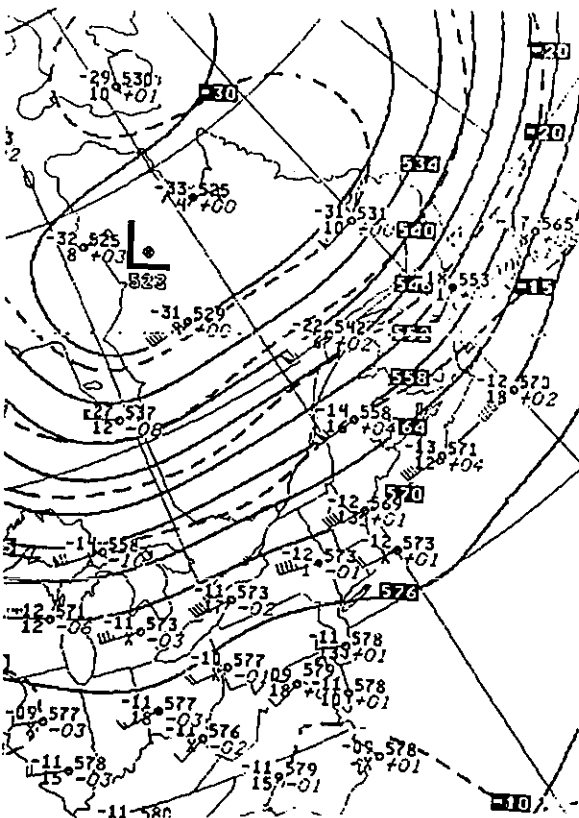
1 1325 CST 4.00 INCH HAIL NAPLES ME



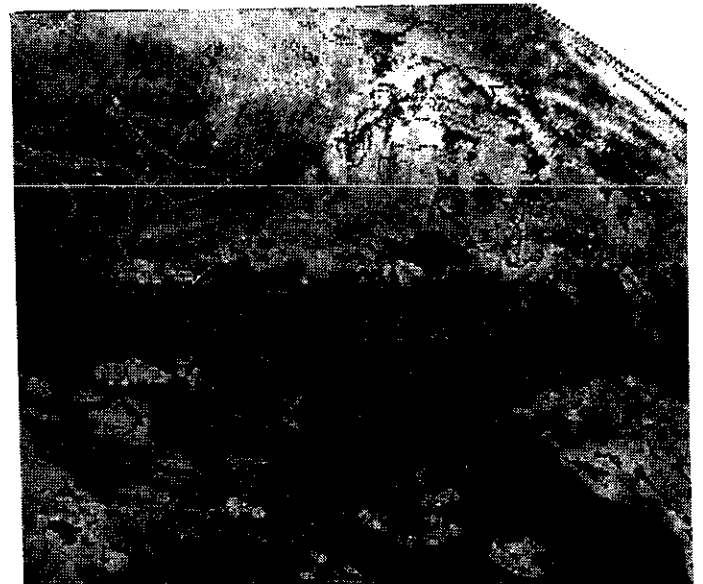
01JUN86 0900-1800 CST 56 REPORTS



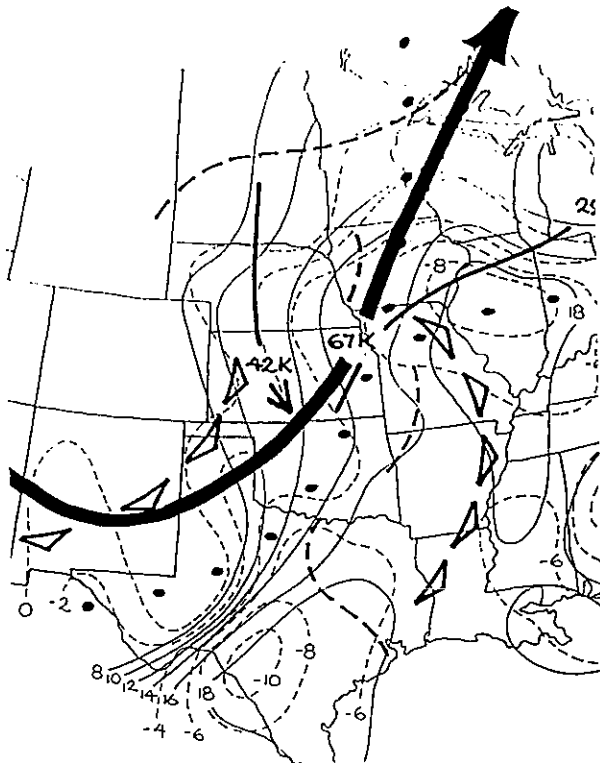
Surface 12 Noon CST June 1, 1986



500 MB 6AM CST June 1, 1986

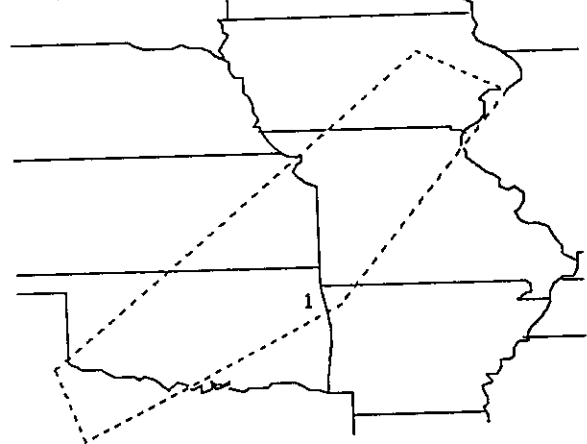


GOES 1:30PM CST June 1, 1986

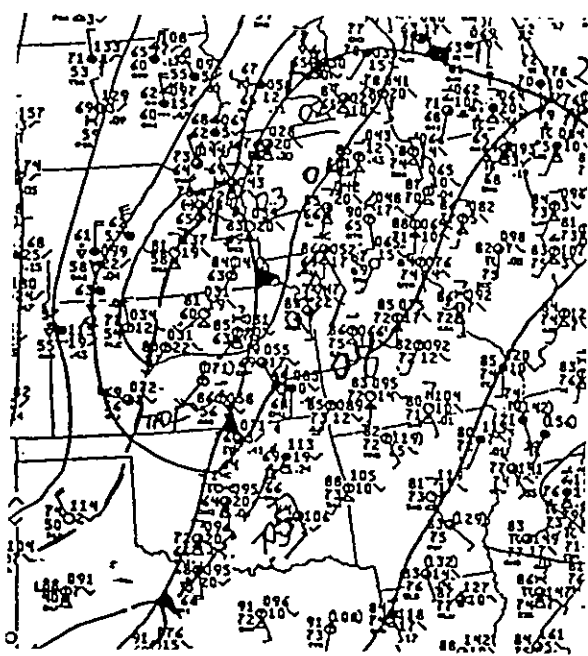


Composite 6PM CST June 10, 1986

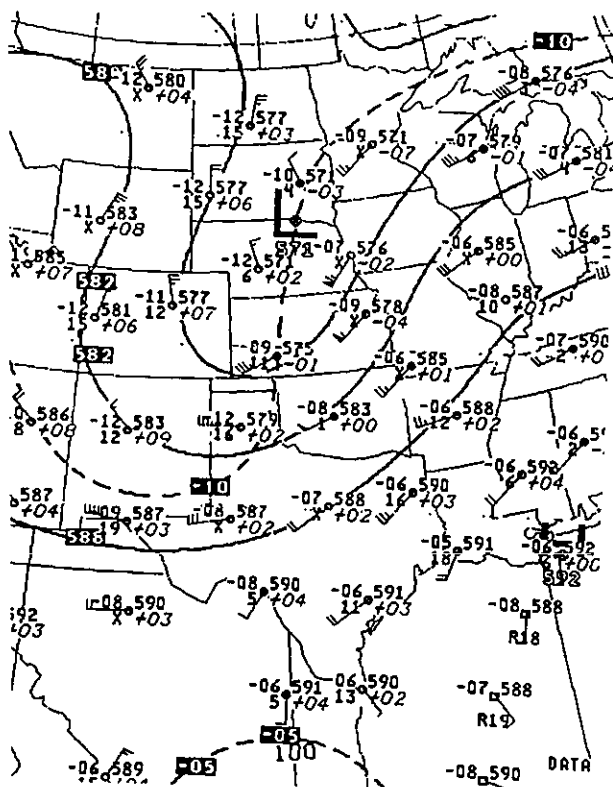
1 1900 CST GUST 80 MPH JAY OK \$0.5 MILLION DAMAGE



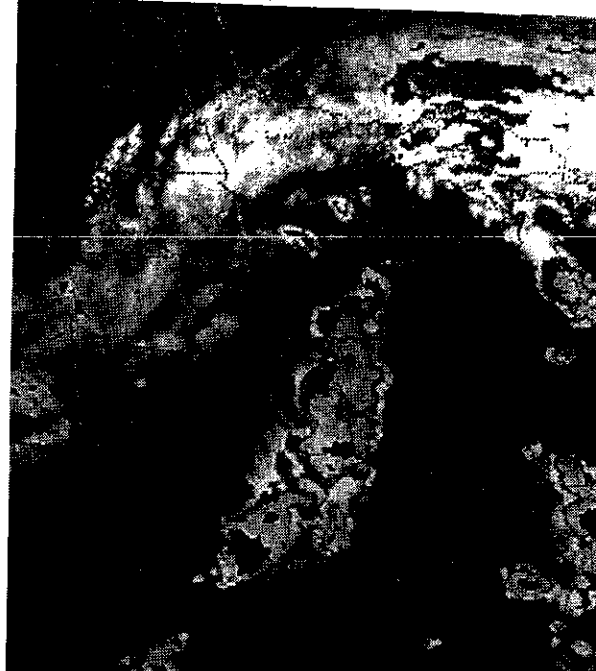
10JUN86 1430-2230 CST 65 REPORTS 5 TORNADOES



Surface 6PM CST June 10, 1986

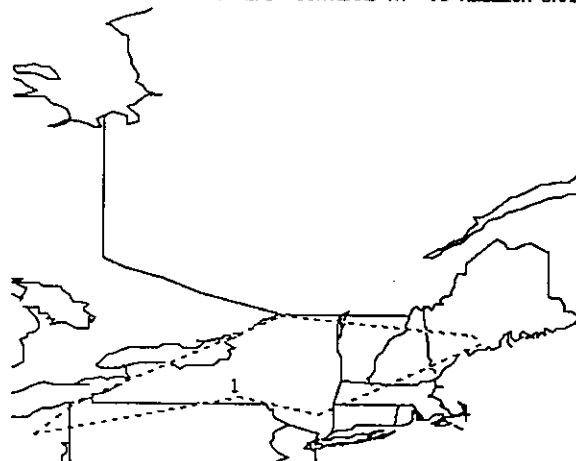
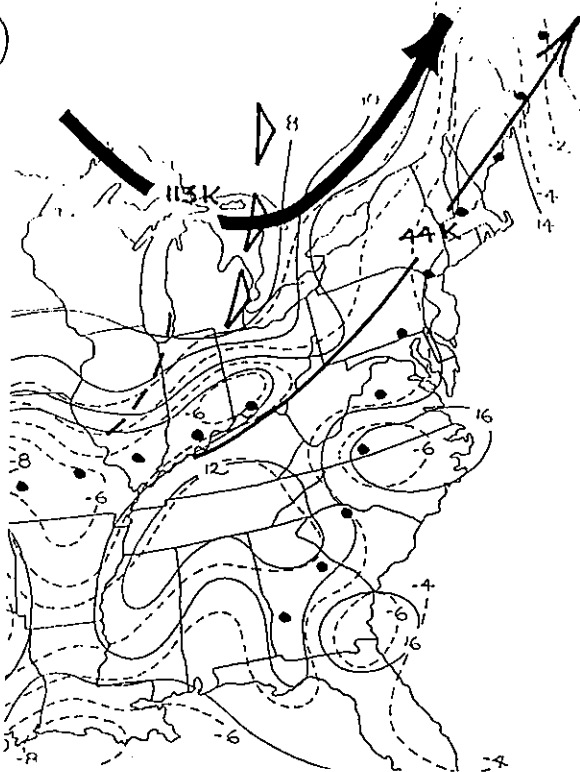


500 MB 6PM CST June 10, 1986

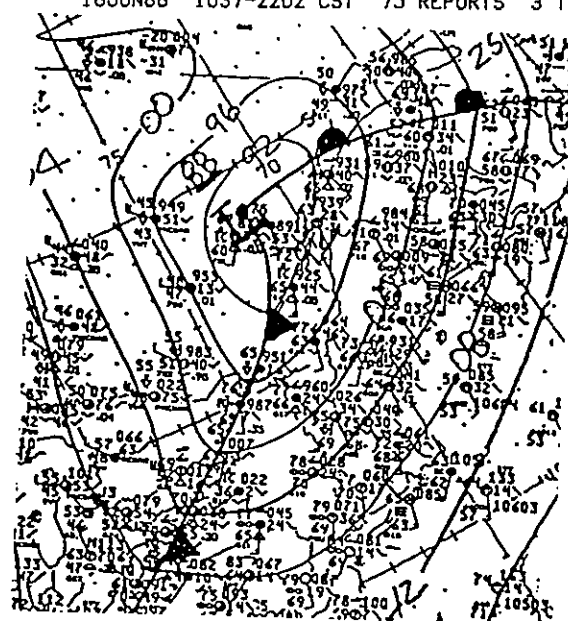


GOES 7PM CST June 10, 1986

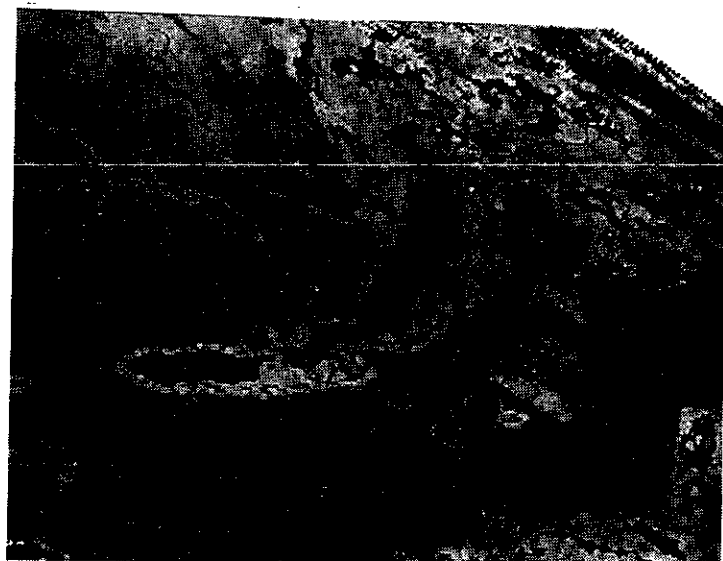
1 1842 CST DOWNBURST WIND CORTLAND NY 18 MILLION DAMAGE



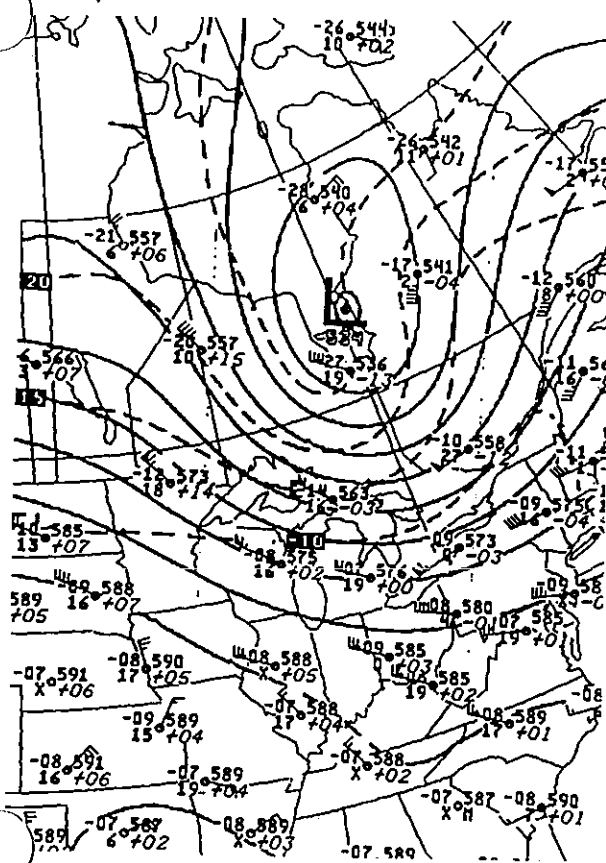
16JUN86 1037-2202 CST 75 REPORTS 3 TORNADOES



Surface 6PM CST June 16, 1986



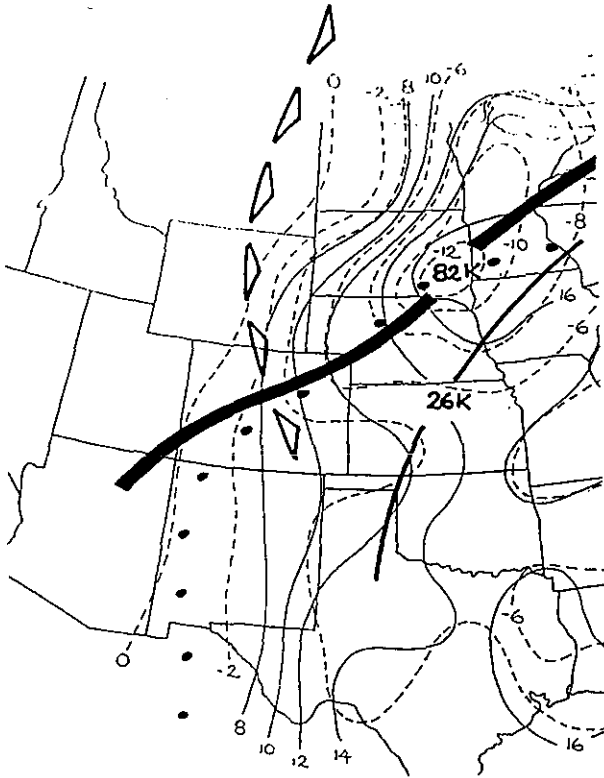
Composite 6PM CST June 16, 1986



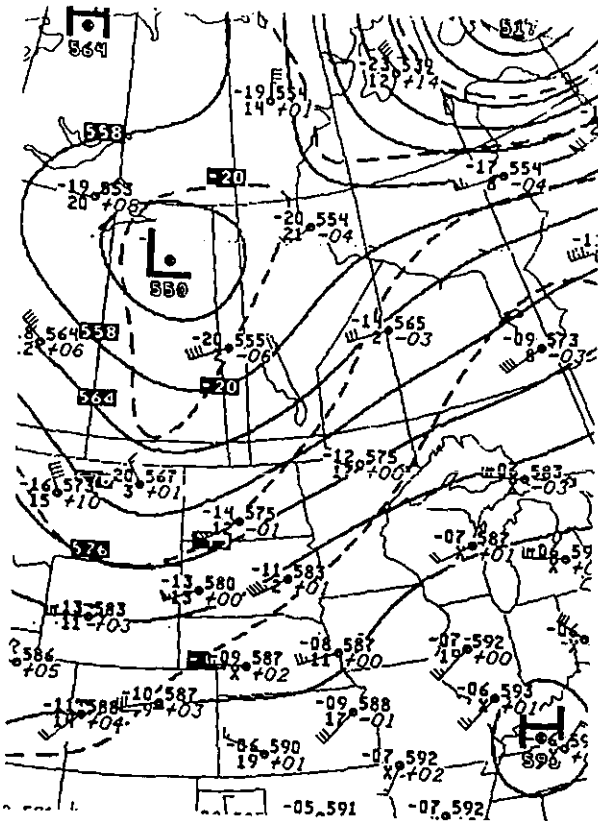
500 MB 6PM CST June 16, 1986

GOES 6PM CST June 16, 1986

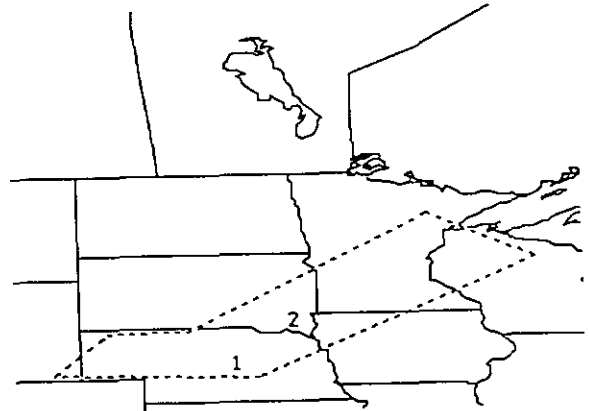
1 2100 CST GUST 100 MPH BURWELL NE
2 2250 CST GUST 95 MPH YANKTON SD



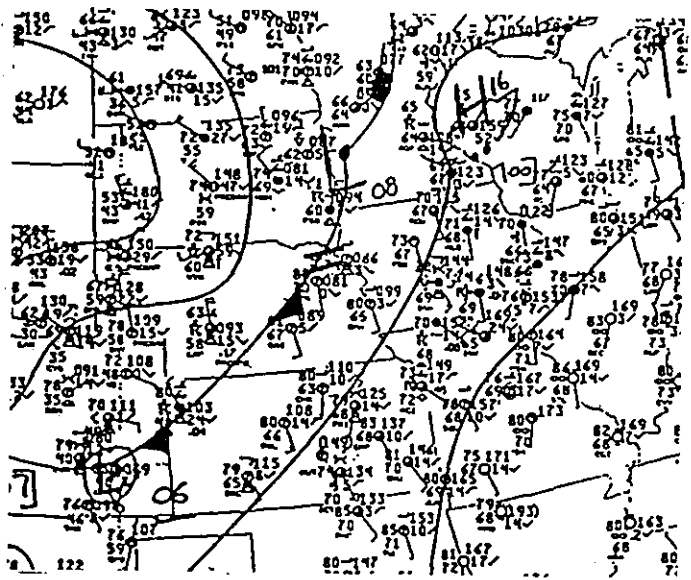
Composite 6PM CST June 21, 1986



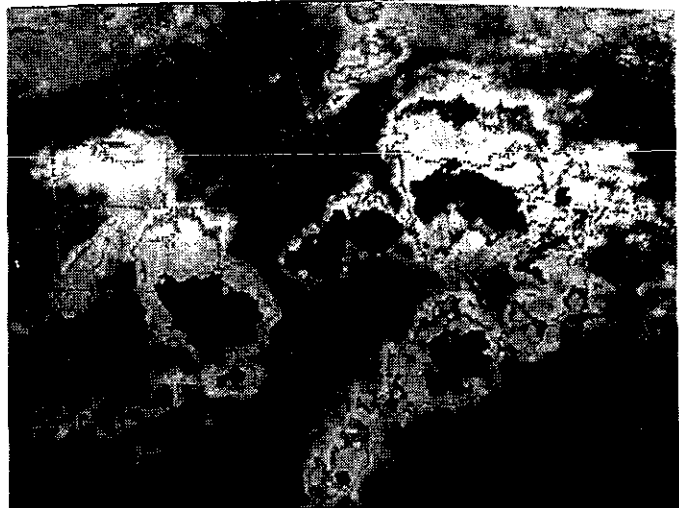
500 MB 6PM CST June 21, 1986



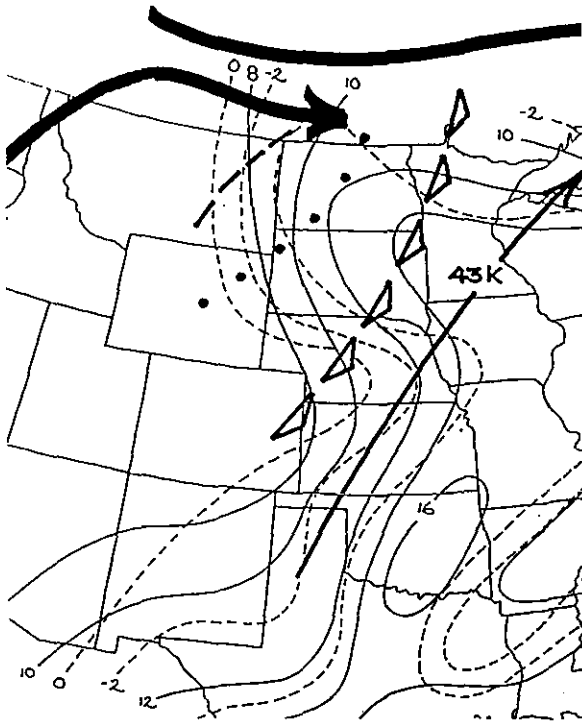
21JUN86-22JUN86 1430-0115 CST 96 REPORTS 9 TORNADOES



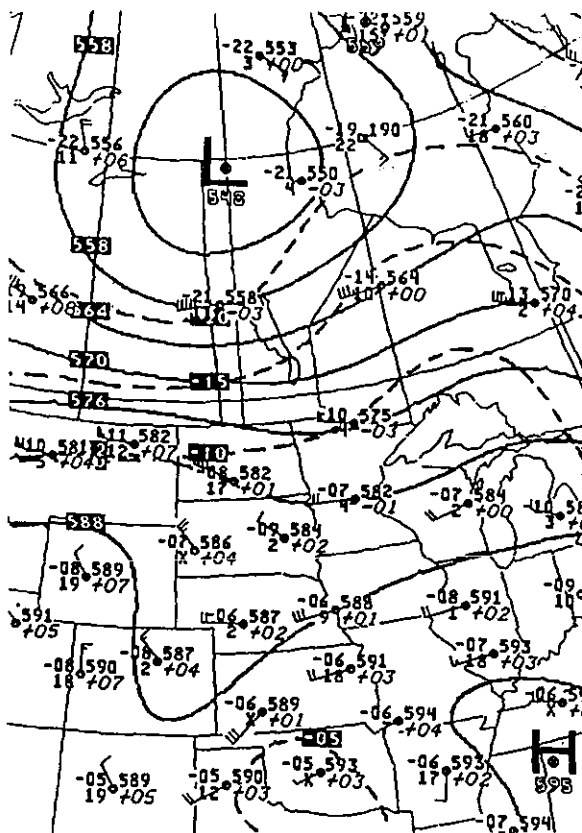
Surface 9PM CST June 21, 1986



GOES 9PM CST June 21, 1986

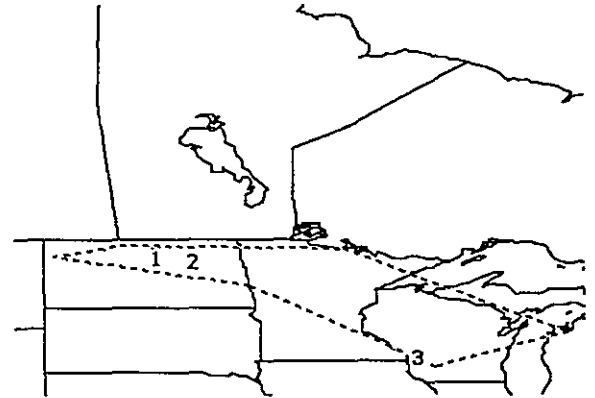


Composite 6PM CST June 26, 1986

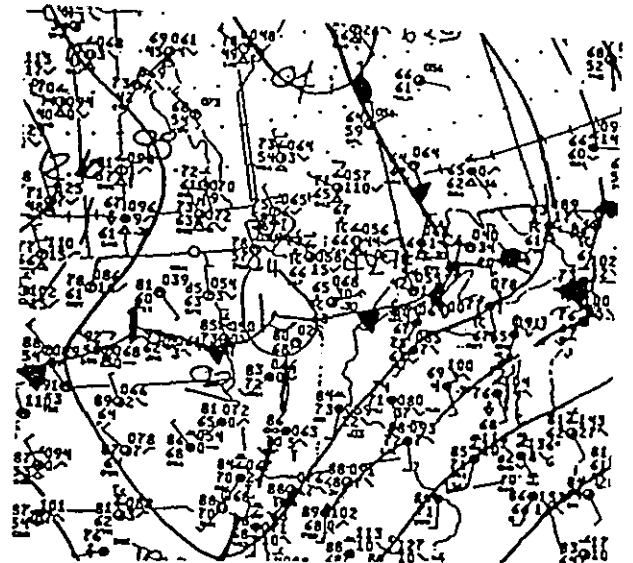


500 MB 6PM CST June 26, 1986

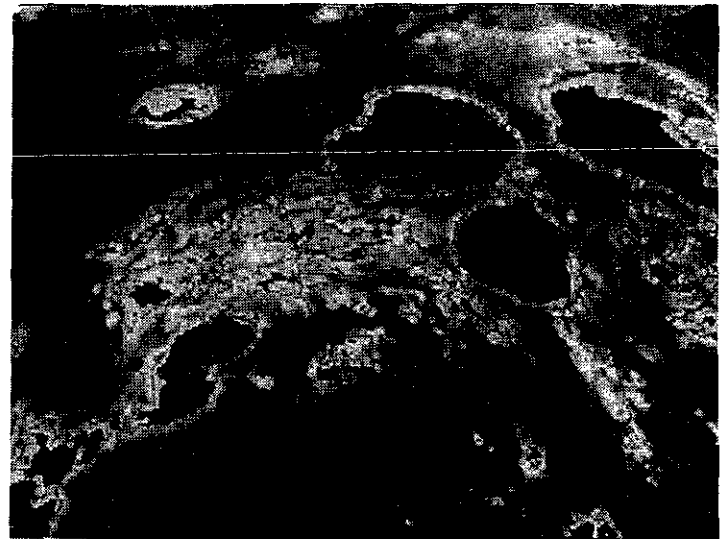
NO	TIME	EVENT	ST	LOCATION	PATH	KIL	INJ	DMS
1	1636	TORNADO-F3	MO	BOTTINEAU	8.0	1	6	
2	1800	GUST 80 MPH	MO	DEVILS LAKE		12	6	
3	2017	TORNADO-F2	WI	SPARTA	3.3		5	



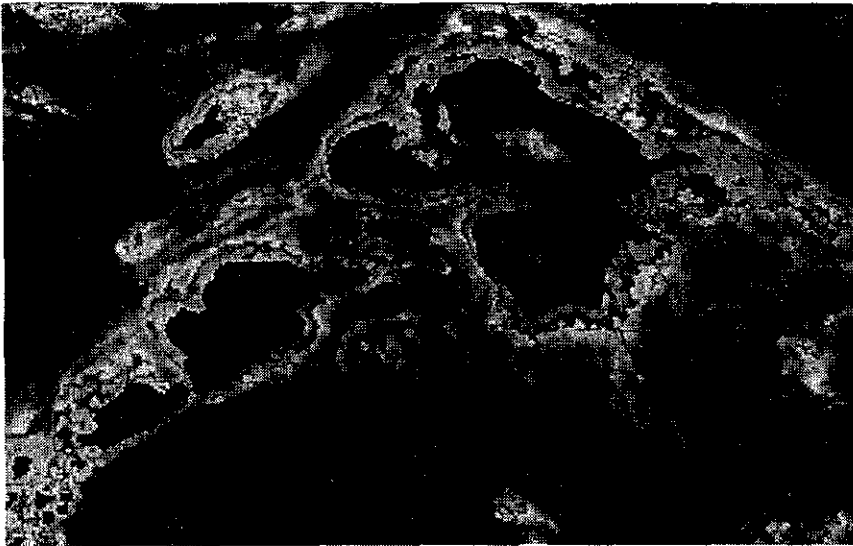
26JUN86 1530-2025 CST 26 REPORTS 6 TORNADOES



Surface 6PM CST June 26, 1986



GOES 4PM CST June 26, 1986



GOES 8PM CST June 26, 1986

- No. 6 Severe Local Storm Warning and Event Summaries Available in AFOS. Preston W. Leftwich, Jr. and Lawrence C. Lee, January 1984, 10 p. (PB84 150291).
- No. 7 Severe Thunderstorm Cases of 1984. John E. Hales, Jr. and Hugh G. Crowther, May 1985, 88 p. (PB85 210748/AS).
- No. 8 A Minimum Assumption Tornado Hazard Probability Model. Joseph T. Schaefer, Donald L. Kelly and Robert F. Abbey, May 1985, 30 p. (PB85 206092/AS).
- No. 9 Verification of Severe Local Storm Forecasts Issued By the National Severe Storms Forecast Center: 1984. Preston W. Leftwich, Jr., November 1985, 14 p., (PB86 128105/AS)
- No. 10 Severe Local Storm Warning Verification: 1984. Preston W. Leftwich, Jr. and Leo A. Grenier, December 1985, 14 p., (PB86 148244)
- No. 11 Severe Thunderstorm Cases of 1985. John E. Hales, Jr. and Hugh G. Crowther, February 1986, 51 p., (PB86 164340/AS).
- No. 12 Severe Local Storm Warning Verification Preliminary Procedures. Leo A. Grenier and John T. Halmstad, April 1986, 10 p.
- No. 13 Verification of Severe Local Storm Forecasts Issued by the National Severe Storms Forecast Center: 1985. Preston W. Leftwich, Jr., November 1986, 9 p., (PB87 137139/AS).
- No. 14 Severe Local Storm Warning Verification: 1985. Preston W. Leftwich, Jr. and Leo A. Grenier, December 1986, 16 p., (PB87 137147/AS).
- No. 15 An Examination of the National Weather Service Severe Local Storm Warning Program and Proposed Improvements. John E. Hales, Jr., January 1987, 32 p., (PB87).

NOAA SCIENTIFIC AND TECHNICAL PUBLICATIONS

The National Oceanic and Atmospheric Administration was established as part of the Department of Commerce on October 3, 1970. The mission responsibilities of NOAA are to assess the socioeconomic impact of natural and technological changes in the environment and to monitor and predict the state of the solid Earth, the oceans and their living resources, the atmosphere, and the space environment of the Earth.

The major components of NOAA regularly produce various types of scientific and technical information in the following kinds of publications:

PROFESSIONAL PAPERS—Important definitive research results, major techniques, and special investigations.

CONTRACT AND GRANT REPORTS—Reports prepared by contractors or grantees under NOAA sponsorship.

ATLAS—Presentation of analyzed data generally in the form of maps showing distribution of rainfall, chemical and physical conditions of oceans and atmosphere, distribution of fishes and marine mammals, ionospheric conditions, etc.

TECHNICAL SERVICE PUBLICATIONS—Reports containing data, observations, instructions, etc. A partial listing includes data serials; prediction and outlook periodicals; technical manuals, training papers, planning reports, and information serials; and miscellaneous technical publications.

TECHNICAL REPORTS—Journal quality with extensive details, mathematical developments, or data listings.

TECHNICAL MEMORANDUMS—Reports of preliminary, partial, or negative research or technology results, interim instructions, and the like.



Information on availability of NOAA publications can be obtained from:

NATIONAL TECHNICAL INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
5285 PORT ROYAL ROAD
SPRINGFIELD, VA 22161